BRUHATH BANGALORE MAHANAGARA PALIKE
EXECUTIVE ENGINEER, RR NAGAR DIVISION

Name of Works : Providing Gallery to Musical Fountain in JP Park in Ward No 17, J P Park.

DETAILED ESTIMATE

								Estimated Cost=		7,00,00,000.00
Sl No	Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
	BUILDING WORK									
1	Earth work excavation by manual means for drains,canals, waste weir draft, approach channels, key trench, foundation of Bridges and such similar works, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed disposing off or leveling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work. **In ordinary/soft rock without blasting upto 1.5 m depth** (KPWD SR 2021-22, Volume-II, Item No.1.5.1, Page No.6)									
		Cum								
	For Galary									
	Footings			28	3.60	3.60	3.00	1088.64		
				28	2.80	2.80	3.00	658.56		
	Plinth Beam			28	7.30	0.80	0.60	98.11		
				1	112.00	0.60	0.60	40.32		
				1	112.00	0.60	0.60	40.32		
	Back Floor Bed									
				1	17.00	7.30	0.45	55.85		
				1	95.00	7.30	0.45	312.08		
							Total Quantity	**2293.87**	**251.90**	**577826.36**
	Rate Analysis									
	Basic Rate	229.00								
	Area Weightage @10%	22.90								
	Total Amount	**251.90**								
2	Providing and laying in position **plain cement concrete Mix 1:3:6 (M10)** Using 40 mm nominal size graded crushed coarse aggregates for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) (KWPD 2021-22, V-I, Item No.2.1.3, Page No.15)									
		Cum								
	For Galary									
	Footings			28	3.30	3.30	0.15	45.74		
				28	2.50	2.50	0.15	26.25		
	Plinth Beam			18	7.30	0.80	0.15	15.77		
				1	112.00	0.50	0.15	8.40		
				1	112.00	0.50	0.15	8.40		
	Back Floor Bed									
	Flogging Concrete			1	180.00	1.00	0.20	36.00		
				1	17.00	7.30	0.15	18.62		
				1	95.00	7.30	0.15	104.03		
							Total Quantity	**263.20**	**6327.20**	**1665293.73**
	Rate Analysis									
	Basic Rate	5752.00								
	Area Weightage @10%	575.20								
	Total Amount	**6327.20**								
3	KSRB 2.8 Providing and filling in foundation with granite/trap broken metal of 100 MM and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour charges and with all lead and lift etc complete as per specification and the direction of the Engineer in charge I.No 6.4 Volume 2 SR 2021-22									
		Cum								
	For Galary									
	Footings			28	3.60	3.60	0.25	90.72		
				28	2.50	2.50	0.25	43.75		
	Plinth Beam			18	7.30	0.80	0.15	15.77		
				1	112.00	0.50	0.15	8.40		

Sl No	Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
				1	112.00	0.50	0.15	8.40		
							Total Quantity	167.04	2817.10	470562.75
	Rate Analysis									
	Basic Rate	2561.00								
	Area Weightage @10%	256.10								
	Total Amount	**2817.10**								
4	Providing and laying in position **Reinforced cement concrete M25** Using 20 mm nominal size graded crushed coarse aggregates for **all Sub structures of building,** Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/ trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.4.3, Page No.17)									
		Cum								
	For Galary									
	Footings			28	3.00	3.00	0.75	189.00		
				28	2.20	2.20	0.60	81.31		
	Column Upto Plinth			28	0.60	0.60	2.50	25.20		
				28	0.60	0.60	2.50	25.20		
	Plinth Beam									
				28	7.30	0.60	0.45	56.19		
				1	112.00	0.60	0.45	30.24		
				1	112.00	0.60	0.45	30.24		
	Cut off wall			1	112.00	0.20	0.75	16.80		
				2	112.00	0.20	0.75	33.60		
	Entrance step			1	180.00	1.00	0.18	31.50		
							Total Quantity	518.28	7136.77	3698843.60
	Rate Analysis									
	Basic Rate	6299.00								
	For Centering Work 3% from P No.115, It No.1b	188.97								
	Area Weightage @10%	648.80								
	Total Amount	**7136.77**								
5	Providing and laying in position **Reinforced cement concrete M25** Design Mix Using 20 mm nominal size graded crushed coarse aggregates for **all Super structures of building** , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.5.2, Page No.17)									
		Cum								
	For Galary									
	Column Above Plinth			28	0.60	0.60	4.80	48.38		
				28	0.60	0.20	0.75	2.52		
				28	0.60	0.60	0.75	7.56		
	Back Floor Bed									
				1	17.00	6.50	0.100	11.05		
				1	75.00	6.00	0.100	45.00		
							Total Quantity	114.51	7855.32	899544.11
	Rate Analysis									
	Basic Rate	6492.00								
	For Centering Work 10% from P No.115, It No.8	649.20								
	Area Weightage @10%	714.12								
	Total Amount	**7855.32**								

Sl No	Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
6	Providing and laying in position **Reinforced cement concrete M25** Design Mix Using 20 mm nominal size graded crushed coarse aggregates for **all Super structures of building** , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.5.1, Page No.17)									
		Cum								
	For Galary									
				28	7.60	0.60	0.30	38.30		
	Waist Beams			1	112.00	0.60	0.60	40.32		
	Beams			1	112.00	7.60	0.30	255.36		
	For Waist Slab									
	For Steps			4	112.00	1.20	0.45	120.96		
	For Landing			5	112.00	0.50	0.45	63.00		
	For Seating									
	For Sub Steps									
	For Landing	**4**		12	1.50	0.30	0.15	1.62		
							Total Quantity	**519.56**	**10354.74**	**5379950.13**
	Rate Analysis									
	Basic Rate	6492.00								
	For Centering Work 45% from P No.115, It No.12 & 13	2921.40								
	Area Weightage @10%	941.34								
	Total Amount	**10354.74**								
7	Supplying, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure / Superstructure complete as per Drawing and Technical Specifications. (KWPD 2021-22, V-III, Item No.9.3, Page No.71)									
		Cum								
	Considering 180Kgs per Cum of Concrete			1	1096.31		0.180	197.34		
							Total Quantity	**197.34**	**103724.50**	**20468519.85**
	Rate Analysis									
	Basic Rate	94295.00								
	Area Weightage @10%	9429.50								
	Total Amount	**103724.50**								
	R.O PLANT									
8	Earth work excavation by manual means for drains,canals, waste weir draft, approach channels, key trench, foundation of Bridges and such similar works, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed disposing off or leveling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work. **In ordinary/soft rock without blasting upto 1.5 m depth** (KPWD SR 2021-22, Volume-II, Item No.1.5.1, Page No.6)									
		Cum								
	For R O Plant									
	Column		9	4	1.70	1.70	1.50	156.06		
	For SSM Foundation		9	2	4.60	0.75	0.90	55.89		
			9	2	3.10	0.75	0.90	37.67		
							Total Quantity	**249.62**	**251.90**	**62878.02**
	Rate Analysis									
	Basic Rate	229.00								
	Area Weightage @10%	22.90								
	Total Amount	**251.90**								
9	Providing and laying in position **plain cement concrete Mix 1:3:6 (M10)** Using 40 mm nominal size graded crushed coarse aggregates for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) (KWPD 2021-22, V-I, Item No.2.1.3, Page No.15)									
		Cum								
	For R O Plant									
	Column		9	4	1.70	1.70	0.15	15.61		

Sl No	Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
	For SSM Foundation		9	2	4.60	0.75	0.15	9.32		
			9	2	3.10	0.75	0.15	6.28		
	For Flooring		9	1	4.60	3.10	0.15	19.25		
							Total Quantity	50.45	6327.20	319204.08
	Rate Analysis									
	Basic Rate	5752.00								
	Area Weightage @10%	575.20								
	Total Amount	**6327.20**								
10	Providing and laying in position **Reinforced cement concrete M25** Design Mix Using 20 mm nominal size graded crushed coarse aggregates for **all Sub structures of building,** Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.4.2, Page No.17)									
		Cum								
	For R O Plant									
	Column Footing		9	4	1.50	1.50	0.45	36.45		
	Column upto Plinth		9	4	0.20	0.45	0.90	2.92		
							Total Quantity	**39.37**	**7120.91**	**280321.55**
	Rate Analysis									
	Basic Rate	6285.00								
	For Centering Work 3% from P No.115, It No.1b	188.55								
	Area Weightage @10%	647.36								
	Total Amount	**7120.91**								
11	Providing and laying in position **Reinforced cement concrete M25** Design Mix Using 20 mm nominal size graded crushed coarse aggregates for **all Super structures of building** , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.5.2, Page No.17)									
		Cum								
	For R O Plant									
	Column Above Plinth		9	4	0.20	0.45	3.00	9.72		
							Total Quantity	9.72	7855.32	76353.71
	Rate Analysis									
	Basic Rate	6492.00								
	For Centering Work 10% from P No.115, It No.8	649.20								
	Area Weightage @10%	714.12								
	Total Amount	**7855.32**								
12	Providing and laying in position Reinforced cement concrete M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.5.2, Page No.17)									
		Cum								
	For R O Plant									
	Plinth Beam		9	2	4.60	0.20	0.30	4.97		
			9	2	3.10	0.20	0.30	3.35		
	Roof Beam		9	2	5.20	0.20	0.40	7.49		
			9	2	3.10	0.20	0.40	4.46		
	Roof Slab		9	1	4.60	3.70	0.15	22.98		

Sl No	Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
							Total Quantity	43.25	8569.44	370585.43
	Rate Analysis									
	Basic Rate	6492.00								
	For Centering Work 20% from P No.115, It No.12 & 13	1298.40								
	Area Weightage @10%	779.04								
	Total Amount	**8569.44**								
13	Supplying, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure / Superstructure complete as per Drawing and Technical Specifications. (KWPD 2021-22, V-III, Item No.9.3, Page No.71)									
		Cum								
	Considering 125Kgs per Cum of Concrete		1	1	92.33		0.125	11.54		
							Total Quantity	**11.54**	**103724.50**	**1197123.35**
	Rate Analysis									
	Basic Rate	94295.00								
	Area Weightage @10%	9429.50								
	Total Amount	**103724.50**								
14	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (KWPD 2021-22, V-II, Item No.5.4, Page No.9)									
		Cum								
	For R O Plant									
	For SSM Foundation		9	2	4.60	0.60	0.60	29.81		
			9	2	3.10	0.60	0.60	20.09		
	For Flooring		9	2	4.60	0.45	0.60	22.36		
			9	2	3.10	0.45	0.60	15.07		
	Steps		9	1	2.50	0.40	0.45	4.05		
			9	1	2.50	0.40	0.25	2.25		
							Total Quantity	**93.62**	**5964.20**	**558356.48**
	Rate Analysis									
	Basic Rate	5422.00								
	Area Weightage @10%	542.20								
	Total Amount	**5964.20**								
15	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (KWPD 2021-22, V-II, Item No.6.32, Page No.17)									
		Sqm								
	For R O Plant									
	Wall		9	2	4.60		3.00	248.40		
			9	2	3.10		3.00	167.40		
	Parapet Wall		9	2	4.60		0.75	62.10		
			9	2	3.10		0.75	41.85		
	Deductions									
	Door		-9	-1	2.50		2.60	58.50		
							Total Quantity	**578.25**	**1322.20**	**764562.15**
	Rate Analysis									
	Basic Rate	1202.00								
	Area Weightage @10%	120.20								
	Total Amount	**1322.20**								
16	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.3.1, Page No.41)									
		Sqm								
	For R O Plant									
	Outside Plastering		9	2	4.80		4.85	419.04		
			9	2	3.30		4.85	288.09		
	Inside Plastering		9	2	4.40		3.00	237.60		
			9	2	2.90		3.00	156.60		
			9	1	3.30		3.00	89.10		
	Deductions									
	Door		-18	-2	2.50		2.60	234.00		
							Total Quantity	**1424.43**	**337.70**	**481030.01**
	Rate Analysis									
	Basic Rate	307.00								

Sl No	Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
	Area Weightage @10%	30.70								
	Total Amount	337.70								
17	Providing 12 mm cement plaster with cement mortar 1:4 (1 cement: 4 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.. (KWPD 2021-22, V-II, Item No.8.1.1, Page No.41)									
		Sqm								
	For R O Plant									
	Ceiling		9	1	4.40	2.90		114.84		
								Total Quantity	**114.84**	**239.80**	**27538.63**
	Rate Analysis									
	Basic Rate	218.00								
	Area Weightage @10%	21.80								
	Total Amount	**239.80**								
18	Finishing walls with Acrylic Smooth exterior paint of required shade :New work (Two coat applied @ 1.67 ltr/10 m² over and including priming coat of exterior primer applied @ 2.20 kg/10 m²) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.30, Page No.46)									
		Sqm								
	Vide qty from item no.	16						1424.43		
	Vide qty from item no.	17						114.84		
								Total Quantity	**1539.27**	**149.60**	**230274.79**
	Rate Analysis									
	Basic Rate	136.00								
	Area Weightage @10%	13.60								
	Total Amount	**149.60**								
19	Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6kg per m2 to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g per m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In charge. (KWPD 2021-22, V-II, Item No.15.1, Page No.132)									
		Sqm								
	For R O Plant									
	For Roof Slab		9	1	4.60	3.10		128.34		
								Total Quantity	**128.34**	**819.50**	**105174.63**
	Rate Analysis									
	Basic Rate	745.00								
	Area Weightage @10%	74.50								
	Total Amount	**819.50**								
20	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ m2 including grouting the joints with white cement and matching pigments etc., Complete. **Size of Tile 500x500 mm** (KWPD 2021-22, V-II, Item No.9.12.1, Page No.60)									
		Sqm								
	For R O Plant									
	For Flooring		9	1	4.60	3.10		128.34		
			9	1	12.90		1.80	208.98		
	Skirting		9	1	15.40		0.10	13.86		
	Steps		9	1	2.50	1.50		33.75		
								Total Quantity	**384.93**	**1125.30**	**433161.73**
	Rate Analysis									
	Basic Rate	1023.00								
	Area Weightage @10%	102.30								
	Total Amount	**1125.30**								

Sl No	Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
21	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length andb jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. 80x1.25 mm M.S. laths with 1.25 mm thick top cover including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.(KWPD 2021-22, V-II, Item No.11.6.1, Page No.76)									
		Sqm								
	For R O Plant									
	Rolling Shutter		9	1	2.50		2.60	58.50		
							Total Quantity	58.50	2761.00	161518.50
	Rate Analysis									
	Basic Rate	2510.00								
	Area Weightage @10%	251.00								
	Total Amount	2761.00								
	ELECTRIC WORK									
22	Supplying heavy gauge PVC conduit pipe..... dia confirming to IS 2509 with suitable size benda, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. (ELE SR 2021-22 Page-1, Item-1.1.2)									
		m								
	b) 25mm dia 2mm thick									
	Concealed Conduit System		9	50				450.00		
							Total Qty	450.00	80.00	36000.00
23	Supplying..... mm dia 2mm/2.5mm thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary. (ELE SR 2021-22 Page-1, Item-1.2.2)									
		m								
	b) 25mm dia 2mm thick									
			9	50				450.00		
							Total Qty	450.00	70.00	31500.00
24	Groove cutting in the wall supplying.....dia 2mm/2.5mm thick heavy gauge PVC Conduit Pipe with bends, metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out conduit wherever necessary. (ELE SR 2021-22 Page-1, Item-1.3.2)									
		m								
	b) 25mm dia 2mm thick									
			9	38				342.00		
							Total Qty	342.00	80.00	27360.00
25	Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of approved make etc.(ELE SR 2021-22 Page-1, Item-1.4)									
		each								
	c) 135x75x65mm		9	3				27.00	131.00	3537.00
	d)180x90x65mm		9	3				27.00	155.00	4185.00
	e)200x90x65mm		9	3				27.00	169.00	4563.00
26	Supplying and fixing PVC/metal conduit accessories.(3/5) (ELE SR 2021-22 Page-1, Item-1.5)									
	1. Special type junction	each								
	b)25mm junction box		9	5				45.00	51.00	2295.00
	2. Deep junction box									
	c) 32mm deep junction box		9	5				45.00	69.00	3105.00
27	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work cpmplete.(ELE SR 2021-22 Page-2, Item-1.6)									
		m								
	a)12xx"12"x3" (330x300x76mm		9	1				9.00	112.00	1008.00
	b)12"x9"x3" (300x228x76)		9	1				9.00	105.00	945.00
28	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. compelete for each outlet. (ELE SR 2021-22 Page-2, Item-2.1)									
		each								

Sl No	Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
	a) Short point up to 3Mtr from tapping point to out let via switchEach point		9	10				90.00	276.00	24840.00
	b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch (Each point)		9	10				90.00	386.00	34740.00
29	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using copper PVC insulated multi strand 2x1.5Sqmm copper wire without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. (ELE SR 2021-22 Page-3, Item-2.2)									
		each								
	a) Short point up to 3Mtr from tapping point to out let via switch		9	10				90.00	251.00	22590.00
	b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch box		9	10				90.00	361.00	32490.00
30	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. (ELE SR 2021-22 Page-5, Item-3.5.3)									
	I.Group-A	each								
	e) 6Moudule		9	9				81.00	244.00	19764.00
31	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate..(ELE SR 2021-22 Page-5, Item-3.6)									
	I.Using Group "A" materials	each								
	a) 6Amps one way.		9	5				45.00	88.00	3960.00
	i) 32Amps DP switch		9	2				18.00	375.00	6750.00
	j) 6/16Amps universal socket		9	15				135.00	249.00	33615.00
32	Supplying and fixing 32Amps security and energy saving DP switch with key tag suitable to operate on 230 Volts, 50Hz AC supply &completely wired on existing box. (ELE SR 6 Page-6, Item-3.7)									
	I.Using Group "A" materials	each								
			9	2				18.00	747.00	13446.00
33	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. (ELE SR 2021-22 Page-3, Item-2.3)									
		m								
	a. 1 sqmm.		9	150				1350.00	18.00	24300.00
	b. 1.5 sqmm		9	150				1350.00	26.00	35100.00
	C.6 sqmm		9	200				1800.00	87.00	156600.00
34	Supplying and fixing of PVC casing and capping on the wall or ceilng using necessary materials like bends, screws at an interval of 300mm .... Etc as required. (ELE SR 2021-22 Page-2, Item-1.8)									
		m								
	a) 20mm		9	20				180.00	27.00	4860.00
35	Supplying PVC/GI flexible conduit pipe....mm dia fixing on surface over inverted wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and either end of the pipe terminated completely. (ELE SR 2021-22 Page-2, Item-1.9)									
		Nos								
	a) 20mm		9	15				135.00	25.00	3375.00
36	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size 110mm conduit using necessary machine screws. (ELE SR 2021-22 Page-6, Item-3.10.2)									
		Nos								
	b) 110mm		9	10				90.00	12.00	1080.00
37	Supplying a 50mm wooden plug, tapered from 50x50mm to 25x25mm and fixing by using binding wire before concreting a roof slap. (ELE SR 2021-22 Page-6, Item-3.11)									
		Nos								
			9	10				90.00	8.00	720.00
38	Supplying and fixing of slim box fitting, made out of CRCA Sheet metal body with locking type holder completely wired. Excluding Ballast & Flouresent Tube. 1 x 4' Tube light fitting. (ELE SR 2019-20 Page-41, Item-12.25.2)									
		each								
			9	4				36.00	310.00	11160.00

Sl No	Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
39	Supplying and fixing of T5 Fluorescent Tube with 14W power consumption with low 3mg Mercury content & below 40% glass content than T8 lamp & 20% less phosphor coating than T8 with initial lumen on 1350 (for 3000-6500 deg Kelvin), rated Avg life (12 Hr. Cycle) of greater than 35000 burring hours. Operating voltage range from 180V to 265V, 50Hz AC power Supply 28 watts Lamp (ELE SR 2021-22 Page-40, Item-12.18.2)									
		each								
			9	4				36.00	172.00	6192.00
	WATR SUPPLY WORK									
40	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS: 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. (KPWD SR 2021-22, Volume-II, Item No.13.34)									
		Ltr								
			9	2000				18000.00		
							Total Quantity	18000.00	8.80	158400.00
	Rate Analysis (Issue Rates as on 21-04-2021									
	Basic Rate	8.00								
	Area Weightage @10%	0.80								
	Total Amount	**8.80**								
41	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall **25 mm nominal dia Pipes** (KPWD SR 2021-22, Volume-II, Item No.13.31.3)									
		mtr								
			9	1	18.00			162.00		
							Total Quantity	162.00	347.60	56311.20
	Rate Analysis (Issue Rates as on 21-04-2021									
	Basic Rate	316.00								
	Area Weightage @10%	31.60								
	Total Amount	**347.60**								
42	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall **32 mm nominal dia Pipes** (KPWD SR 2021-22, Volume-II, Item No.13.31.4)									
		mtr								
			9	1	15.00			135.00		
							Total Quantity	135.00	432.30	58360.50
	Rate Analysis (Issue Rates as on 21-04-2021									
	Basic Rate	393.00								
	Area Weightage @10%	39.30								
	Total Amount	**432.30**								
43	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber 150 x 100 mm size P type With Non Modular common burnt clay bricks of designation 3.5 & with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight or cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: (KPWD SR 2021-22, Volume-II, Item No.13.39)									
		Each								
			9	2				18.00		
							Total Quantity	18.00	2528.90	45520.20
	Rate Analysis (Issue Rates as on 21-04-2021									
	Basic Rate	2299.00								
	Area Weightage @10%	229.90								
	Total Amount	**2528.90**								
	R O Plant									
	Design,Supply,Installation,commisioning of RO plant 2000litr per hour Capacity with softner (1Nos)									

Sl No	Description of work	Unit		Nos	Dimenstions in m			Quantity		Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m				
44	**Raw water Feed pump with starter**,Type-Horizontal ,Centrifugal.Make-Kirloskar/Beacon weir/Sumo/CNP(SS),Material of Construction-Cast Iron,Head-36 MWC. Motor-3.0HPthree phase.Starter-L&T Siemen make push botton type DOL Starter										
		9	2				18.00		Nos	24500.00	441000.00
45	**Multi graded sand filter,type-verticle**,Floor Mounted,Make-pentair/structural/ION EXCHANGE(INDIA) LTD/Zeolite/Aquario,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure -3.5kg/cm2, Treatment Flow Rate-6000liters/Hr,Type of valve size-Multiport,50NB,make-UKL/Initiative,Filtering Media -Gravel,Graded Sand & Pebble										
		9	2				18.00		Nos	33000.00	594000.00
46	**Activated carbon Filter type-Verticle**,Floor Mounted,Make-pentair/Structural/ION EXCHANGE(INDIA) LTD/Zeolite/Aquario,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure -3.5kg/cm2, Treatment Flow Rate-6000liters/Hr,Type of valve size-Multiport,50NB,make-UKL/Initiative,Filtering Media -Gravel, Activated Carbon & pebbles										
		9	1				9.00		Nos	62500.00	562500.00
47	**Water Softner**,type-verticle,Floor Mounted,Make-pentair/Structural/ION EXCHANGE(INDIA) LTD/Zeolite/Aquario,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure 3.5kg/cm2, Treatment Flow Rate-6000liters/Hr Type of Resin INDION 220Na or Thermax T40										
		9	1				9.00		Nos	62000.00	558000.00
48	**Antiscalant Dosing System**,Equipment Required-Electronic Dosing Pump with Solution Tank,make-Ion Exchange (I) Ltd.,/ ASIA LMI/Zeolite,Material of Construction-PP(Polypropelene),Discharge @Max Back Pressure-2.88litr/Hr @8bar,Discharge@Nominal Back Pressure=3.12Lit/Hr @ 4Bar,Chemical to be dosed-										
		9	1				9.00		Nos	85000.00	765000.00
49	**Accessories for Dosing System**,Solution Tank-One No,Volume-100Litres,Material of Construction-HDPE,Tank level Switch-One No.										
		9	1				9.00		Nos	42000.00	378000.00
50	**Reverse Osmosis System**,Type-Horizontal Skid,Floor Mounted,Permeate water-Minimum 2000litr/hr,Maximum Permissable TDS in feed (PPM)-2500.										
		9	1				9.00		Nos	89000.00	801000.00
51	**Pressure Vessel**,Material of Construction-FRP,Make-Advance Composite/Code Line.										
		9	1				9.00		Nos	85000.00	765000.00
52	**Membrane**, Type-Brackish water . Nos required-Three.Make-TORAY JAPAN /Hydranautics/Filmtec/Tricep										
		9	1				9.00		Nos	88000.00	792000.00
53	**High pressure pump**,Type- verticle,multistage,Make-GRUNDFOS,MOTOR-7.5 HP 3Phase, Model-CRN series,Material of construction-SS316,starter-L&T/Seimens make push botton type DOL starter										
		9	1				9.00		Nos	55000.00	495000.00
54	Micron Filter,Type -JUMBO,Material of construction of housing-poly propelene										
		9	1				9.00		Nos	78000.00	702000.00
55	Instruction, Wet panel -Ms powder coated., Mounted on R.O> skid, Low pressure switch-one No,High Pressure Switch-one, Digitalconductivity Meter wiyh sensor , Indon brand-one No , ON/OFF selector Switch -one No, High pressure System Pressure Gauge - one No, Auto Flush Timer -one No, Indication Lamps -one No, product Flow Meter- one No, Reject Flow Meter-one No,Reject Re-circolation Meter-one No,Alarm-one No										
		9	1				9.00		Nos	86000.00	774000.00
56	pH correction dosing System, Equipment Required-Electronic Dosing Pump with solution Tank, Make-Ion Exchange(1) Ltd.,/ ASIA LMI/Zeolite,Material of construction -PP, Discharge @ max . Back Pressure-2.88 Lit/Hr@8Bar.Discharge@Nominal Back Pressure-3.12 Lit/Hr@4Bar,Frequency-100 Strokes / Min, Chemical to be dosed-PH Booster										
		9	1				9.00		Nos	83000.00	747000.00
57	Solution Tank with level switch, Solution Tank-one No, Volume-100 Liters. Material of construction-HDPE. Tank levelswitch-one No										
		9	1				9.00		Nos	15000.00	135000.00
58	Inter-connecting pipe work ,Raw water tank to feed pump suction and feed pump delivery to R.O. Inlet (up to High pressure pump in let)and RO outlet to Treated water tank-food Grade PVC pipe 40mm NB, Make-Finolex/ supreme,High pressure pump outlet to membrane inlet-ss pipe of required size, Approximate Length-35.0 Metre										
		9	1				9.00		Nos	78000.00	702000.00
59	Ultra violet system, Model-UVS-20,Make-Ion Exchange (I) Ltd.,/ ASIA LMI/Zeolite,ALFA Flow rate-2000L/H										
		9	1				9.00		Nos	74500.00	670500.00

Sl No	Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
60	RO water strong tank, 2000 ltrs SS tank, to store RO water with required nozzles									
		9	1				9.00	Nos	80000.00	720000.00
61	Wending Machine ,Digital Swiping Card Type									
		9	1				9.00	Nos	35000.00	315000.00
	Borewell									
62	Geophysical investigation at site for sinking borewells for supplying drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or Schlumbergers's method, including reconnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instruments and accessories to work site, engaging technical personal and labour required etc. NOTE: 1) Additional rate on item 1&2 is allowed for drilling in over burden and fixing Casing pipes beyond 20 M (for fixing Casing pipes only) a) Above 20 M and upto 30 M - 15%, b) Above 30 M - 30% (Measurement of overburden is restricted to the depth of casing pipe fixed excluding initial depth of 20M and projection above ground level). 2) A sum of Rs. 100/- is to be deducted for Dry Borewell towards yield test.									
	SR 2021-22 Volume IV P.No 152 I.NO 4 S no O040A									
	RR Nagara			9						
			No	9				9.00	5141.00	46269.00
63	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete)									
	SR 2021-22 Volume IV P.No 152 I.NO 1 S no O010 ABCDEFGHI									
	0 to 50 m		Rmt	9	50.00			450.00	347.00	156150.00
	50 to 100 m		Rmt	9	50.00			450.00	442.00	198900.00
	100 to 150 m		Rmt	9	50.00			450.00	456.00	205200.00
	150 to 200 m		Rmt	9	50.00			450.00	536.00	241200.00
	200 to 250 m		Rmt	9	50.00			450.00	634.00	285300.00
	250 to 300 m		Rmt	9	50.00			450.00	700.00	315000.00
	300 to 350 m		Rmt	9	50.00			450.00	825.00	371250.00
	350 to 400 m		Rmt	9	50.00			450.00	900.00	405000.00
	400 to 420 m		Rmt	9	20.00			180.00	1129.00	203220.00
64	Providing and fixing **250mm dia PVC (casing pipe)** (page no.XXXI, SL no.909) (KPWD SR 2016-17)									
			Rmt	18	6.00			108.00	2600.00	280800.00
65	Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m.prices include Collar-Medium duty.									
	SR 2021-22 Volume IV P.No 154 I.NO 32 S no O160A									
			Rmt	9	50.00			450.00	1933.00	869850.00
66	Providing and fixing MS casing collars as per IS 1239 (part-II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments									
	SR 2021-22 Volume IV P.No 154 I.NO 33 S no O170A									
			Each	75				75.00	150.00	11250.00
67	Providing **175mm dia Bore Cap** CE (M)									
	PRED SR 2012-13 (P.No.iii,I.No.85)									
			No	9				9.00	100.00	900.00
68	Atalanta suguna CRI **KIRLOSKAR** and other equipments **pumps** 10.00 **HP/7.5 KV (20 stage)**									
	(Pg No. XLI. Sl.no.29) KPWD SR-2018-19									
			No	9				9.00	49955.00	449595.00

Sl No	Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
69	Providing and fixing in trenches **galvinised/mild steel tube 50mm dia nominal bore** with all fittings (earth work in trenches to be measured and paid for seperately) including cost of all materials, labour charges,HOM of equipment and testing complete as per specifications. Specification No. KBS 13.2.14/13.6 (page no.92/It no.13.15)KPWD SR 2018-19.									
	(Pg No. XLI. Sl.no.29) KPWD SR-2018-19									
	Basic rate		388.00							
	A.W @ 6%		23.28							
	Total		**411.28**							
			Rmt	9	350.00			3150.00	**411.28**	**1295532.00**
70	Supplying and drawing **3 core flat PVC** sheathed submersible **pump cable** maufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and power coating extruded PVC sheathed suitable for working voltage upto 1100 volts with specified IS 694:1990 and confirming to the attwached GTP of group A 3CX4.0 sq.mm									
	(PWD Ele SR 2014-15,P-12/It-2.10.3)									
	Add 5mts for Switching		Rmt	18	345.00			6210.00	**126.70**	**786807.00**
71	Providing and fixing in position **50mm Nominal bore non-return valve** vertical type of approved make including cost of all materials,labour and HOM of equipment with all leads complete as per specifications.(PWD SR 18-19,P-95/It no.13.62)									
	Basic rate		1269							
	A.W @ 6%		76.14							
	Total		**1345.14**							
			No	9				9.00	**1345.14**	**12106.00**
72	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :									
	SR 2021-22 Volume II P.No 117 I.No 13.10.6									
	Basic rate		543							
	A.W @ 10%		54.3							
	Total		**597.3**							
			No	9				9.00	**597.30**	**5376.00**
73	Spplying and fixing **50mm GI Elbow.**									
	(PWD SR 2018-19,P-XXXIX)									
			No	9				9.00	**111.80**	**1006.00**
74	Spplying and fixing **50mm GI Nipple**									
	(PWD SR 2018-19,P-XXXIX)									
			No	9				9.00	**104.30**	**939.00**
75	Spplying and fixing **50mm GI Hose colleres**									
	(PWD SR 2018-19,P-XXXIX)									
			No	522				522.00	**103.00**	**53766.00**
76	Supplying and fixing 20" x 20" x 2.5" polished **wood board** made of not less than 15mm thick plank on both the sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.,									
	KPWD ELE SR 2019-20 P.no.44 / I no. 6.6.6									
			No	9				9.00	**302.00**	**2718.00**
77	Supplying and fixing miniature circuit breakers on existing **MCB distribution board** using necessary fixing materials and 'C' type curve indicator ON/OFF energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.(PWD Ele SR 2022-23 ,P-13/Sl no.5.17.7) 6-32 A TPN									
			No	9				9.00	**1777.00**	**15993.00**
78	Supplying of TPST with rewirable porcelain channels in SM encloser made out of 14 SWG powder coated point of approved colour 32 amps (PWD Ele SR 2022-23,P-10,It-5.5.1)									
			No	9				9.00	**1944.00**	**17496.00**
79	Supplying and fixing LED type panel board indicating lamp with required colour suitable for 220 V AC 50 HZ 12/24 V DC(PWD Ele SR 2022-23 P-14,Sl no.5.38)									
			No	9				9.00	**464.00**	**4176.00**
80	Suppling fully automatic star delta starter unit push button type with suitable wires 2 conductors and adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts phase and wired after fixing to the existing wooden board for motor. upto 12.5HP(PWD Ele SR 2022-23,p-10,Sl no.-5.2.1)									
			No	9				9.00	**6912.00**	**62208.00**
81	Supplying and fixing single phase preventer using necessary wires over an existing panel board suitable for motar up to 20 HP capacities.(PWD Ele SR 2022-23,p-10/Sl no.5.3)									
			No	9				9.00	**805.00**	**7245.00**

Sl No	Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
82	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade multistrand copper conductor single core wire in open or concealed system of wiring as per IS 694:1990 & conforming to the attached GTP of group A. 4 sqmm (PWD Ele SR 2019-20,p-3,It-2.3.4(d)									
			Mtrs	9	20.00			180.00	59.00	10620.00
83	Supplying fixing and wiring heavy duty low voltage capacitors conforming to IS 2834 phase 400/440 volts grade, for power factor improvement of rotating machinery.(PWD Ele SR 2022-23 ,p-14/Sl no.5.37)									
			No	36				36.00	432.00	15552.00
84	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cotouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia (PWD Ele SR 2019-20,p-40,Sl no.6.1)									
			No	9				9.00	2999.70	26997.00
85	Digging of trench of 0.36mtrs deepx0.5 mtrs wide refilling the trench to the required gorund level and consolidating etc., complete (PWD Ele SR 2019-20,p-41,It-6.6.2) hard soil									
			Mtrs	9	8.00			72.00	102.00	7344.00
86	Supplying laying 1.1 KV class LT UG cable having aluminium conductor PVC insulated extruded inner shethed galvanised steel strip (excep 2cx 10 sqmm wire armoured) confirming to IS-3975:1990 (No. of strip indicated in GTP) and extruded PVC outer sheathed armoured cable with specified IS-1554,part-1:1988 and confirming to the attached GTP of group A 4 core 16 sq mm PWD Ele SR 2019-20,p-40,It-6.4.4)									
			Mtrs	9	10.00			90.00	150.00	13500.00
87	Labour charge for laying 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe/ on wall / on poles as required in existing trench/duct. 6 sq mm to 16 sq mm(PWD Ele SR 2019-20,p-41,It-6.5.1)									
			No	9	25.00			225.00	11.88	2673.00
88	Supplying and fixing class-A(medium duty) GI pipe wall thickness not less then 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1KV class 40mm(PWD Ele SR 2019-20,p-41,It-6.9.1)									
			Rmt	9	2.00			18.00	335.00	6030.00
89	Supplying and fixing LT cast iron pot heads suitable for 1.1KV class UG cable filled with necessary bitumen / insulating compound complete with terminals,clamps bolts and nuts and washer etc.,complete for 16 sq mm as per specifications.(PWD Ele SR 2019-20,p-42,It-6.10.2)									
			No	9				9.00	270.00	2430.00
90	Supplying and fixing porcelain fuse channel with cut out on the existing wooden block and wiring complete 63 amps(PWD Ele SR 2019-20,p-10,It-5.7.3)									
			No	27				27.00	372.00	10044.00
91	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately									
	PWD SR 2021-22 Volume III P.No 10 I.No 2.19									
	Basic rate		422.00							
	A.W @ 10%		42.2							
	Total		**464.2**							
	Borewell									
	Water line		Cum	9	112	0.45	0.125	56.70		
								56.70	464.2	26320.00
92	Earth work excavation for pipeline trenches in all kinds of by mechanical means above 600 mm trench width as per drawing and technical specifications, including setting out, construction of shoring, strutting, barricading, caution lights, bracing, using sight rails & bonding rods at every 100 mm whevere necessary as directed, removal of slumps and other deleterious matter, dressing of sides and levelling the bottom of trench to the extent required , utilising the available excavated earth locally for the work and all other appurtenances to complete in the following strata.									
	PWD SR 2021-22 Volume I P.No 10 I.No 1.19.1									
	Basic rate		342.00							
	A.W @ 10%		34.2							
	Total		**376.2**							
	Borewell									
	Water line		Cum	9	112	0.45	0.35	158.76		
								158.76	376.2	59726.00

Sl No	Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
93	Providing and fixing **Chorinated Poly Venyl Chloride (CPVC) pipes** conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (external work) - **50mm nominal** OD pipes (KPWD SR 2018-19, P-99, It-13.87.6)									
	PWD SR 2021-22 Volume II P.No 8 I.No : 13.33.6								**1st**	
	Corrigendum and Addendum order - 21-04-2022									
	Basic rate		702.00							
	A.W @ 10%		70.2							
	Total		**772.20**							
	Borewell									
	Water line		Mtr	9	112			1008.00		
								1008.00	**772.2**	**778378.00**
94	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete : 25 to 40 mm nominal bore									
	PWD SR 2021-22 Volume II P.No 115 I.No 13.1.1									
	Basic rate		471.00							
	A.W @ 10%		47.1							
	Total		**518.1**							
	Water line		Each	100.8				100.80	**518.1**	**52224.00**
95	Providing and fixing **Chorinated Poly Venyl Chloride (CPVC) pipes** conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete. (external work). - **20mm nominal** OD pipes (KPWD SR 2018-19, P-98, It-13.85.2)									
	PWD SR 2021-22 Volume II P.No 8 I.No : 13.33.20								**1st**	
	Corrigendum and Addendum order - 21-04-2022									
	Basic rate		215.00							
	A.W @ 10%		21.5							
	Total		**236.5**							
	Tap Connection			9	10.00			90.00		
								90.00	**236.5**	**21285.00**
96	Providing and fixing to wall, ceiling and floor **Medium density polyethylene pipes** 6.00 kgf/sq.cm working pressure **25mm outside diameter** with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9 (KPWD SR 2018-19, P-95, It-13.67)									
	Basic rate		129.00							
	A.W @ 6%		7.74							
	Total		**136.74**							
	for other Purposes		Mtr	9	125.00			1125.00		
								1125.00	**136.74**	**153833.00**
97	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications									
	PWD SR 2021-22 Volume I P.No 7 I.No 1.10									
	Basic rate		122.00							
	A.W @ 10%		12.2							
	Total		**134.2**							
	70% of Qty Vide item		Cum					111.13	**134.2**	**14914.00**
98	**Loading and unloading** of stone boulder/stone aggregates/sand/kanker/ moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (KPWD SR 2018-19,P-136, it.17.1)									
	Item No:-17.1 Loading		57.00							
	Conveying for 16km		40.96							
	Total		97.96							
	Balance Qty Vide item No. 30+ 30% of 31 item		Cum					104.33		
								104.33	**97.96**	**10220.00**
99	Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) 65 mm nominal bore									
	PWD SR 2021-22 Volume II P.No 115 I.No :13.4.5									
	Basic rate		1390.00							
	A.W @ 10%		139							
	Total		**1529**							
	For Main Line		Each	9				9.00	**1529**	**13761.00**
100	Providing and fixing brass stop cock of approved quality :									
	PWD SR 2021-22 Volume II P.No 115 I.No :13.3.1									
	Basic rate		326.00							

Sl No	Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
	A.W @ 10%		32.6							
	Total		**358.6**							
	Tap Connection		Each	100.8				100.8		
								100.80	**358.6**	**36147.00**
101	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates									
	PWD SR 2021-22 Volume I P.No 15 I.No :2.1.4									
	Basic rate		5926.0							
	A.W @ 10%		592.6							
	Total		**6518.6**							
	Borewell									

Sl No	Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
	Water line		Cum	9	112	0.45	0.15	68.04		
								68.04	6518.6	443526.00
102	BESCOM deposit Charges and miscellaneous									
			No	9.00				9.00	12000.00	108000.00
									Construction Total Amount	5,81,33,071.49
									Add GST Charges 18%	1,04,63,952.87
									Add Detailed Project Report (DPR) and PMC Charges 2.0%	14,00,000.00
									Sub Total	6,99,97,024.36
									Miscellaneous and unforeseen charges etc.L.S	2,975.64
									Grand Total	7,00,00,000.00

Certificate:

1. The work spot has been inspected and found to be necessary
2. The provisions made in the estimate are necessary and minimum
3. The estimate is based on CSR of 2021-22 of Issue Rates on 07.04.2022

Assistant Engineer

Executive Engineer

BRUHATH BANGALORE MAHANAGARA PALIKE
EXECUTIVE ENGINEER, RR NAGAR DIVISION

Name of Works : Drilling of Borewells , Providing Water Supply and Construction of RO Plants in Rajarajeshwari nagara Constituency

DETAILED ESTIMATE

								Estimated Cost=		8,00,00,000.00
Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
	R.O PLANT									
1	Earth work excavation by manual means for drains,canals, waste weir draft, approach channels, key trench, foundation of Bridges and such similar works, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed disposing off or leveling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work. **In ordinary/soft rock without blasting upto 1.5 m depth** (KPWD SR 2021-22, Volume-II, Item No.1.5.1, Page No.6)									
		Cum								
	For R O Plant									
	Column		3	4	1.70	1.70	1.50	52.02		
	For SSM Foundation		3	2	4.60	0.75	0.90	18.63		
			3	2	3.10	0.75	0.90	12.56		
							Total Quantity	**83.21**	**251.90**	**20959.34**
	Rate Analysis									
	Basic Rate	229.00								
	Area Weightage @10%	22.90								
	Total Amount	**251.90**								
2	Providing and laying in position **plain cement concrete Mix 1:3:6 (M10)** Using 40 mm nominal size graded crushed coarse aggregates for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) (KWPD 2021-22, V-I, Item No.2.1.3, Page No.15)									
		Cum								
	For R O Plant									
	Column		3	4	1.70	1.70	0.15	5.20		
	For SSM Foundation		3	2	4.60	0.75	0.15	3.11		
			3	2	3.10	0.75	0.15	2.09		
	For Flooring		3	1	4.60	3.10	0.15	6.42		
							Total Quantity	**16.82**	**6327.20**	**106401.36**
	Rate Analysis									
	Basic Rate	5752.00								
	Area Weightage @10%	575.20								
	Total Amount	**6327.20**								
3	Providing and laying in position **Reinforced cement concrete M20** Using 20 mm nominal size graded crushed coarse aggregates for **all Sub structures of building**, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.4.2, Page No.17)									
		Cum								
	For R O Plant									
	Column Footing		3	4	1.50	1.50	0.45	12.15		
	Column upto Plinth		3	4	0.20	0.45	0.90	0.97		
							Total Quantity	**13.12**	**7088.05**	**93009.37**
	Rate Analysis									
	Basic Rate	6256.00								
	For Centering Work 3% from P No.115, It No.1b	187.68								
	Area Weightage @10%	644.37								
	Total Amount	**7088.05**								

Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
4	Providing and laying in position **Reinforced cement concrete M20** Design Mix Using 20 mm nominal size graded crushed coarse aggregates for **all Super structures of building** , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.5.1, Page No.17)									
		Cum								
	For R O Plant									
	Column Above Plinth		3	4	0.20	0.45	3.00	3.24		
							Total Quantity	**3.24**	**7829.91**	**25368.91**
	Rate Analysis									
	Basic Rate	6471.00								
	For Centering Work 10% from P No.115, It No.8	647.10								
	Area Weightage @10%	711.81								
	Total Amount	**7829.91**								
5	Providing and laying in position **Reinforced cement concrete M20** Design Mix Using 20 mm nominal size graded crushed coarse aggregates for **all Super structures of building** , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.5.1, Page No.17)									
		Cum								
	For R O Plant									
	Plinth Beam		3	2	4.60	0.20	0.30	1.66		
			3	2	3.10	0.20	0.30	1.12		
	Roof Beam		3	2	5.20	0.20	0.40	2.50		
			3	2	3.10	0.20	0.40	1.49		
	Roof Slab		3	1	4.60	3.70	0.15	7.66		
							Total Quantity	**14.42**	**8541.72**	**123128.89**
	Rate Analysis									
	Basic Rate	6471.00								
	For Centering Work 20% from P No.115, It No.12 & 13	1294.20								
	Area Weightage @10%	776.52								
	Total Amount	**8541.72**								
6	Supplying, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure / Superstructure complete as per Drawing and Technical Specifications. (KWPD 2021-22, V-III, Item No.9.3, Page No.71)									
		Cum								
	Considering 125Kgs per Cum of Concrete		1	1	30.78		0.125	3.85		
							Total Quantity	**3.85**	**103724.50**	**399041.12**
	Rate Analysis									
	Basic Rate	94295.00								
	Area Weightage @10%	9429.50								
	Total Amount	**103724.50**								
7	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (KWPD 2021-22, V-II, Item No.5.4, Page No.9)									
		Cum								
	For R O Plant									
	For SSM Foundation		3	2	4.60	0.60	0.60	9.94		
			3	2	3.10	0.60	0.60	6.70		
	For Flooring		3	2	4.60	0.45	0.60	7.45		
			3	2	3.10	0.45	0.60	5.02		

Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
	Steps		3	1	2.50	0.40	0.45	1.35		
			3	1	2.50	0.40	0.25	0.75		
							Total Quantity	31.21	5964.20	186118.83
	Rate Analysis									
	Basic Rate	5422.00								
	Area Weightage @10%	542.20								
	Total Amount	**5964.20**								
8	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (KWPD 2021-22, V-II, Item No.6.32, Page No.17)									
		Sqm								
	For R O Plant									
	Wall		3	2	4.60		3.00	82.80		
			3	2	3.10		3.00	55.80		
	Parapet Wall		3	2	4.60		0.75	20.70		
			3	2	3.10		0.75	13.95		
	Deductions									
	Door		-3	-1	2.50		2.60	19.50		
							Total Quantity	192.75	1322.20	254854.05
	Rate Analysis									
	Basic Rate	1202.00								
	Area Weightage @10%	120.20								
	Total Amount	**1322.20**								
9	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.3.1, Page No.41)									
		Sqm								
	For R O Plant									
	Outside Plastering		3	2	4.80		4.85	139.68		
			3	2	3.30		4.85	96.03		
	Inside Plastering		3	2	4.40		3.00	79.20		
			3	2	2.90		3.00	52.20		
			3	1	3.30		3.00	29.70		
	Deductions									
	Door		-6	-2	2.50		2.60	78.00		
							Total Quantity	474.81	337.70	160343.34
	Rate Analysis									
	Basic Rate	307.00								
	Area Weightage @10%	30.70								
	Total Amount	**337.70**								
10	Providing 12 mm cement plaster with cement mortar 1:4 (1 cement: 4 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.. (KWPD 2021-22, V-II, Item No.8.1.1, Page No.41)									
		Sqm								
	For R O Plant									
	Ceiling		3	1	4.40	2.90		38.28		
							Total Quantity	38.28	239.80	9179.54
	Rate Analysis									
	Basic Rate	218.00								
	Area Weightage @10%	21.80								
	Total Amount	**239.80**								
11	Finishing walls with Acrylic Smooth exterior paint of required shade :New work (Two coat applied @ 1.67 ltr/10 m² over and including priming coat of exterior primer applied @ 2.20 kg/10 m²) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.30, Page No.46)									
		Sqm								
	Vide qty from item no.	9						474.81		
	Vide qty from item no.	10						38.28		
							Total Quantity	513.09	149.60	76758.26

Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
	Rate Analysis									
	Basic Rate	136.00								
	Area Weightage @10%	13.60								
	Total Amount	**149.60**								
12	Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6kg per m2 to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g per m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In charge. (KWPD 2021-22, V-II, Item No.15.1, Page No.132)									
		Sqm								
	For R O Plant									
	For Roof Slab		3	1	4.60	3.10		42.78		
							Total Quantity	**42.78**	**819.50**	**35058.21**
	Rate Analysis									
	Basic Rate	745.00								
	Area Weightage @10%	74.50								
	Total Amount	**819.50**								
12	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ m2 including grouting the joints with white cement and matching pigments etc., Complete. **Size of Tile 500x500 mm** (KWPD 2021-22, V-II, Item No.9.12.1, Page No.60)									
		Sqm								
	For R O Plant									
	For Flooring		3	1	4.60	3.10		42.78		
			3	1	12.90		1.80	69.66		
	Skirting		3	1	15.40		0.10	4.62		
	Steps		3	1	2.50	1.50		11.25		
							Total Quantity	**128.31**	**1125.30**	**144387.24**
	Rate Analysis									
	Basic Rate	1023.00								
	Area Weightage @10%	102.30								
	Total Amount	**1125.30**								
13	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length andb jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. 80x1.25 mm M.S. laths with 1.25 mm thick top cover including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.(KWPD 2021-22, V-II, Item No.11.6.1, Page No.76)									
		Sqm								
	For R O Plant									
	Rolling Shutter		3	1	2.50		2.60	19.50		
							Total Quantity	**19.50**	**2761.00**	**53839.50**
	Rate Analysis									
	Basic Rate	2510.00								
	Area Weightage @10%	251.00								
	Total Amount	**2761.00**								
	ELECTRIC WORK									
14	Supplying heavy gauge PVC conduit pipe..... dia confirming to IS 2509 with suitable size benda, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. (ELE SR 2021-22 Page-1, Item-1.1.2)									
		m								
	b) 25mm dia 2mm thick									
	Concealed Conduit System		3	50				150.00		
							Total Qty	**150.00**	**80.00**	**12000.00**

Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
15	Supplying..... mm dia 2mm/2.5mm thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary. (ELE SR 2021-22 Page-1, Item-1.2.2)									
		m								
	b) 25mm dia 2mm thick									
			3	50				150.00		
							Total Qty	**150.00**	70.00	10500.00
16	Groove cutting in the wall supplying.....dia 2mm/2.5mm thick heavy gauge PVC Conduit Pipe with bends, metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out conduit wherever necessary. (ELE SR 2021-22 Page-1, Item-1.3.2)									
		m								
	b) 25mm dia 2mm thick									
			3	38				114.00		
							Total Qty	**114.00**	80.00	9120.00
17	Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of approved make etc.(ELE SR 2021-22 Page-1, Item-1.4)									
		each								
	c) 135x75x65mm		3	3				9.00	131.00	1179.00
	d)180x90x65mm		3	3				9.00	155.00	1395.00
	e)200x90x65mm		3	3				9.00	169.00	1521.00
18	Supplying and fixing PVC/metal conduit accessories.(3/5) (ELE SR 2021-22 Page-1, Item-1.5)									
	1. Special type junction bo	each								
	b)25mm junction box		3	5				15.00	51.00	765.00
	2. Deep junction box									
	c) 32mm deep junction box		3	5				15.00	69.00	1035.00
19	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work cpmplete.(ELE SR 2021-22 Page-2, Item-1.6)									
		m								
	a)12xx"12"x3" (330x300x76mm		3	1				3.00	112.00	336.00
	b)12"x9"x3" (300x228x76)		3	1				3.00	105.00	315.00
20	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. compelete for each outlet. (ELE SR 2021-22 Page-2, Item-2.1)									
		each								
	a) Short point up to 3Mtr from tapping point to out let via switchEach point		3	10				30.00	276.00	8280.00
	b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch (Each point)		3	10				30.00	386.00	11580.00
21	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using copper PVC insulated multi strand 2x1.5Sqmm copper wire without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. (ELE SR 2021-22 Page-3, Item-2.2)									
		each								
	a) Short point up to 3Mtr from tapping point to out let via switch box		3	10				30.00	251.00	7530.00
	b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch box		3	10				30.00	361.00	10830.00
22	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. (ELE SR 2021-22 Page-5, Item-3.5.3)									
	I.Group-A	each								
	e) 6Moudule		3	9				27.00	244.00	6588.00
23	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate..(ELE SR 2021-22 Page-5, Item-3.6)									
	I.Using Group "A" materials	each								
	a) 6Amps one way.		3	5				15.00	88.00	1320.00

Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
	i) 32Amps DP switch		3	2				6.00	375.00	2250.00
	j) 6/16Amps universal socket		3	15				45.00	249.00	11205.00
24	Supplying and fixing 32Amps security and energy saving DP switch with key tag suitable to operate on 230 Volts, 50Hz AC supply &completely wired on existing box. (ELE SR 6 Page-6, Item-3.7)									
	I.Using Group "A" materials	each								
			3	2				6.00	747.00	4482.00
25	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. (ELE SR 2021-22 Page-3, Item-2.3)									
		m								
	a. 1 sqmm.		3	150				450.00	18.00	8100.00
	b. 1.5 sqmm		3	150				450.00	26.00	11700.00
	C.6 sqmm		3	200				600.00	87.00	52200.00
26	Supplying and fixing of PVC casing and capping on the wall or ceilng using necessary materials like bends, screws at an interval of 300mm …. Etc as required. (ELE SR 2021-22 Page-2, Item-1.8)									
		m								
	a) 20mm		3	20				60.00	27.00	1620.00
27	Supplying PVC/GI flexible conduit pipe….mm dia fixing on surface over inverted wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and either end of the pipe terminated completely. (ELE SR 2021-22 Page-2, Item-1.9)									
		Nos								
	a) 20mm		3	15				45.00	25.00	1125.00
28	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size 110mm conduit using necessary machine screws. (ELE SR 2021-22 Page-6, Item-3.10.2)									
		Nos								
	b) 110mm		3	10				30.00	12.00	360.00
29	Supplying a 50mm wooden plug, tapered from 50x50mm to 25x25mm and fixing by using binding wire before concreting a roof slap. (ELE SR 2021-22 Page-6, Item-3.11)									
		Nos								
			3	10				30.00	8.00	240.00
30	Supplying and fixing of slim box fitting, made out of CRCA Sheet metal body with locking type holder completely wired. Excluding Ballast & Flouresent Tube. 1 x 4' Tube light fitting. (ELE SR 2019-20 Page-41, Item-12.25.2)									
		each								
			3	4				12.00	310.00	3720.00
31	Supplying and fixing of T5 Fluorescent Tube with 14W power consumption with low 3mg Mercury content & below 40% glass content than T8 lamp & 20% less phosphor coating than T8 with initial lumen on 1350 (for 3000-6500 deg Kelvin), rated Avg life (12 Hr. Cycle) of greater than 35000 burring hours. Operating voltage range from 180V to 265V, 50Hz AC power Supply 28 watts Lamp (ELE SR 2021-22 Page-40, Item-12.18.2)									
		each								
			3	4				12.00	172.00	2064.00
	WATR SUPPLY WORK									
32	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS: 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. (KPWD SR 2021-22, Volume-II, Item No.13.34)									
		Ltr								
			3	2000				6000.00		
							Total Quantity	6000.00	8.80	52800.00
	Rate Analysis (Issue Rates as on 21-04-2021									
	Basic Rate	8.00								
	Area Weightage @10%	0.80								
	Total Amount	**8.80**								
33	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall **25 mm nominal dia Pipes** (KPWD SR 2021-22, Volume-II, Item No.13.31.3)									
		mtr								

Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
			3	1	18.00			54.00		
							Total Quantity	54.00	347.60	18770.40
	Rate Analysis (Issue Rates as on 21-04-2021									
	Basic Rate	316.00								
	Area Weightage @10%	31.60								
	Total Amount	**347.60**								
34	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall **32 mm nominal dia Pipes** (KPWD SR 2021-22, Volume-II, Item No.13.31.4)									
		mtr								
			3	1	15.00			45.00		
							Total Quantity	45.00	432.30	19453.50
	Rate Analysis (Issue Rates as on 21-04-2021									
	Basic Rate	393.00								
	Area Weightage @10%	39.30								
	Total Amount	**432.30**								
35	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber 150 x 100 mm size P type With Non Modular common burnt clay bricks of designation 3.5 & with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight or cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: (KPWD SR 2021-22, Volume-II, Item No.13.39)									
		Each								
			3	2				6.00		
							Total Quantity	6.00	2528.90	15173.40
	Rate Analysis (Issue Rates as on 21-04-2021									
	Basic Rate	2299.00								
	Area Weightage @10%	229.90								
	Total Amount	**2528.90**								
	R O Plant									
	Design,Supply,Installation,commisioning of RO plant 2000litr per hour Capacity with softner (1Nos)									
36	**Raw water Feed pump with starter,**Type-Horizontal ,Centrifugal.Make-Kirloskar/Beacon weir/Sumo/CNP(SS),Material of Construction-Cast Iron,Head-36 MWC. Motor-3.0HPthree phase.Starter-L&T Siemen make push botton type DOL Starter									
		3	2				6.00	**Nos**	24500.00	147000.00
37	**Multi graded sand filter,type-verticle,**Floor Mounted,Make-pentair/structural/ION EXCHANGE(INDIA) LTD/Zeolite/Aquario,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure - 3.5kg/cm2, Treatment Flow Rate-6000liters/Hr,Type of valve size-Multiport,50NB,make-UKL/Initiative,Filtering Media -Gravel,Graded Sand & Pebble									
		3	2				6.00	**Nos**	33000.00	198000.00
38	**Activated carbon Filter type-Verticle,**Floor Mounted,Make-pentair/Structural/ION EXCHANGE(INDIA) LTD/Zeolite/Aquario,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure - 3.5kg/cm2, Treatment Flow Rate-6000liters/Hr,Type of valve size-Multiport,50NB,make-UKL/Initiative,Filtering Media -Gravel, Activated Carbon & pebbles									
		3	1				3.00	**Nos**	62500.00	187500.00
39	**Water Softner,**type-verticle,Floor Mounted,Make-pentair/Structural/ION EXCHANGE(INDIA) LTD/Zeolite/Aquario,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure 3.5kg/cm2, Treatment Flow Rate-6000liters/Hr Type of Resin INDION 220Na or Thermax T40									
		3	1				3.00	**Nos**	62000.00	186000.00
40	**Antiscalant Dosing System,**Equipment Required-Electronic Dosing Pump with Solution Tank,make-Ion Exchange (I) Ltd.,/ASIA LMI/Zeolite,Material of Construction-PP(Polypropelene),Discharge @Max Back Pressure-2.88litr/Hr @8bar,Discharge@Nominal Back Pressure=3.12Lit/Hr @ 4Bar,Chemical to be dosed-									
		3	1				3.00	**Nos**	85000.00	255000.00
41	**Accessories for Dosing System,**Solution Tank-One No,Volume-100Litres,Material of Construction-HDPE,Tank level Switch-One No.									
		3	1				3.00	**Nos**	42000.00	126000.00
42	**Reverse Osmosis System,**Type-Horizontal Skid,Floor Mounted,Permeate water-Minimum 2000litr/hr,Maximum Permissable TDS in feed (PPM)-2500.									
		3	1				3.00	**Nos**	89000.00	267000.00

Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
43	**Pressure Vessel**,Material of Construction-FRP,Make-Advance Composite/Code Line.									
		3	1				3.00	Nos	85000.00	255000.00
44	**Membrane**, Type-Brackish water . Nos required-Three.Make-TORAY JAPAN /Hydranautics/Filmtec/Tricep									
		3	1				3.00	Nos	88000.00	264000.00
45	**High pressure pump**,Type- verticle,multistage,Make-GRUNDFOS,MOTOR-7.5 HP 3Phase, Model-CRN series,Material of construction-SS316,starter-L&T/Seimens make push botton type DOL starter									
		3	1				3.00	Nos	55000.00	165000.00
46	Micron Filter,Type -JUMBO,Material of construction of housing-poly propelene									
		3	1				3.00	Nos	78000.00	234000.00
47	Instruction, Wet panel -Ms powder coated., Mounted on R.O> skid, Low pressure switch-one No,High Pressure Switch-one, Digitalconductivity Meter wiyh sensor , Indon brand-one No , ON/OFF selector Switch -one No, High pressure System Pressure Gauge - one No, Auto Flush Timer -one No, Indication Lamps -one No, product Flow Meter- one No, Reject Flow Meter-one No,Reject Re-circolation Meter-one No,Alarm-one No									
		3	1				3.00	Nos	86000.00	258000.00
48	pH correction dosing System, Equipment Required-Electronic Dosing Pump with solution Tank, Make-Ion Exchange(1) Ltd.,/ASIA LMI/Zeolite,Material of construction -PP, Discharge @ max . Back Pressure-2.88 Lit/Hr@8Bar.Discharge@Nominal Back Pressure-3.12 Lit/Hr@4Bar,Frequency-100 Strokes / Min, Chemical to be dosed-PH Booster									
		3	1				3.00	Nos	83000.00	249000.00
49	Solution Tank with level switch, Solution Tank-one No, Volume-100 Liters. Material of construction-HDPE. Tank levelswitch-one No									
		3	1				3.00	Nos	15000.00	45,000.00
50	Inter-connecting pipe work ,Raw water tank to feed pump suction and feed pump delivery to R.O. Inlet (up to High pressure pump in let)and RO outlet to Treated water tank-food Grade PVC pipe 40mm NB, Make-Finolex/ supreme,High pressure pump outlet to membrane inlet-ss pipe of required size, Approximate Length-35.0 Metre									
		3	1				3.00	Nos	78000.00	234000.00
51	Ultra violet system, Model-UVS-20,Make-Ion Exchange (I) Ltd.,/ASIA LMI/Zeolite,ALFA Flow rate-2000L/H									
		3	1				3.00	Nos	74500.00	223500.00
52	RO water strong tank, 2000 ltrs SS tank, to store RO water with required nozzles									
		3	1				3.00	Nos	80000.00	240000.00
53	Wending Machine ,Digital Swiping Card Type									
		3	1				3.00	Nos	35000.00	105000.00
	Borewell									
54	Geophysical investigation at site for sinking borewells for supplying drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or Schlumbergers's method, including reconnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instruments and accessories to work site, engaging technical personal and labour required etc. NOTE: 1) Additional rate on item 1&2 is allowed for drilling in over burden and fixing Casing pipes beyond 20 M (for fixing Casing pipes only) a) Above 20 M and upto 30 M - 15%, b) Above 30 M - 30% (Measurement of overburden is restricted to the depth of casing pipe fixed excluding initial depth of 20M and projection above ground level). 2) A sum of Rs. 100/- is to be deducted for Dry Borewell towards yield test.									
	SR 2021-22 Volume IV P.No 152 I.NO 4 S no O040A									
	RR Nagara			3						
			No	3				3.00	5141.00	15423.00

Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
55	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete)									
	SR 2021-22 Volume IV P.No 152 I.NO 1 S no O010 ABCDEFGHI									
	0 to 50 m		Rmt	3	50.00			150.00	347.00	52050.00
	50 to 100 m		Rmt	3	50.00			150.00	442.00	66300.00
	100 to 150 m		Rmt	3	50.00			150.00	456.00	68400.00
	150 to 200 m		Rmt	3	50.00			150.00	536.00	80400.00
	200 to 250 m		Rmt	3	50.00			150.00	634.00	95100.00
	250 to 300 m		Rmt	3	50.00			150.00	700.00	105000.00
	300 to 350 m		Rmt	3	50.00			150.00	825.00	123750.00
	350 to 400 m		Rmt	3	50.00			150.00	900.00	135000.00
	400 to 420 m		Rmt	3	20.00			60.00	1129.00	67740.00
56	Providing and fixing **250mm dia PVC (casing pipe)** (page no.XXXI, SL no.909) (KPWD SR 2016-17)									
			Rmt	6	6.00			36.00	2600.00	93600.00
57	Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m.prices include Collar-Medium duty.									
	SR 2021-22 Volume IV P.No 154 I.NO 32 S no O160A									
			Rmt	3	50.00			150.00	1933.00	289950.00
58	Providing and fixing MS casing collars as per IS 1239 (part-II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments									
	SR 2021-22 Volume IV P.No 154 I.NO 33 S no O170A									
			Each	25				25.00	150.00	3750.00
59	Providing **175mm dia Bore Cap** CE (M)									
	PRED SR 2012-13 (P.No.iii,I.No.85)									
			No	3				3.00	100.00	300.00
60	Atalanta suguna CRI **KIRLOSKAR** and other equipments **pumps** 10.00 **HP/7.5 KV (20 stage)**									
	(Pg No. XLI. Sl.no.29) KPWD SR-2018-19									
			No	3				3.00	49955.00	149865.00
61	Providing and fixing in trenches **galvinised/mild steel tube 50mm dia nominal bore** with all fittings (earth work in trenches to be measured and paid for seperately) including cost of all materials, labour charges,HOM of equipment and testing complete as per specifications. Specification No. KBS 13.2.14/13.6 (page no.92/It no.13.15)KPWD SR 2018-19.									
	(Pg No. XLI. Sl.no.29) KPWD SR-2018-19									
	Basic rate		388.00							
	A.W @ 6%		23.28							
	Total		**411.28**							
			Rmt	3	345.00			1035.00	411.28	425675.00
62	Supplying and drawing **3 core flat PVC** sheathed submersible **pump cable** maufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and power coating extruded PVC sheathed suitable for working voltage upto 1100 volts with specified IS 694:1990 and confirming to the attwached GTP of group A 3CX4.0 sq.mm									
	(PWD Ele SR 2014-15,P-12/It-2.10.3)									
	Add 5mts for Switching		Rmt	6	350.00			2100.00	126.70	266070.00
63	Providing and fixing in position **50mm Nominal bore non-return valve** vertical type of approved make including cost of all materials,labour and HOM of equipment with all leads complete as per specifications.(PWD SR 18-19,P-95/It no.13.62)									
	Basic rate		1269							
	A.W @ 6%		76.14							
	Total		**1345.14**							
			No	3				3.00	1345.14	4035.00

Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
64	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :									
	SR 2021-22 Volume II P.No 117 I.No 13.10.6									
	Basic rate		543							
	A.W @ 10%		54.3							
	Total		**597.3**							
			No	3				3.00	597.30	1792.00
65	Spplying and fixing **50mm GI Elbow.**									
	(PWD SR 2018-19,P-XXXIX)									
			No	3				3.00	111.80	335.00
66	Spplying and fixing **50mm GI Nipple**									
	(PWD SR 2018-19,P-XXXIX)									
			No	3				3.00	104.30	313.00
67	Spplying and fixing **50mm GI Hose colleres**									
	(PWD SR 2018-19,P-XXXIX)									
			No	174				174.00	103.00	17922.00
68	Supplying and fixing 20" x 20" x 2.5" polished **wood board** made of not less than 15mm thick plank on both the sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.,									
	KPWD ELE SR 2019-20 P.no.44 / I no. 6.6.6									
			No	3				3.00	302.00	906.00
69	Supplying and fixing miniature circuit breakers on existing **MCB distribution board** using necessary fixing materials and 'C' type curve indicator ON/OFF energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.(PWD Ele SR 2022-23 ,P-13/Sl no.5.17.7) 6-32 A TPN									
			No	3				3.00	1777.00	5331.00
70	Supplying of TPST with rewirable porcelain channels in SM encloser made out of 14 SWG powder coated point of approved colour 32 amps (PWD Ele SR 2022-23,P-10,It-5.5.1)									
			No	3				3.00	1944.00	5832.00
71	Supplying and fixing LED type panel board indicating lamp with required colour suitable for 220 V AC 50 HZ 12/24 V DC(PWD Ele SR 2022-23 P-14,Sl no.5.38)									
			No	3				3.00	464.00	1392.00
72	Suppling fully automatic star delta starter unit push button type with suitable wires 2 conductors and adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts phase and wired after fixing to the existing wooden board for motor. upto 12.5HP(PWD Ele SR 2022-23,p-10,Sl no.-5.2.1)									
			No	3				3.00	6912.00	20736.00
73	Supplying and fixing single phase preventer using necessary wires over an existing panel board suitable for motar up to 20 HP capacities.(PWD Ele SR 2022-23,p-10/Sl no.5.3)									
			No	3				3.00	805.00	2415.00
74	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade multistrand copper conductor single core wire in open or concealed system of wiring as per IS 694:1990 & conforming to the attached GTP of group A. 4 sqmm (PWD Ele SR 2019-20,p-3,It-2.3.4(d)									
			Mtrs	3	20.00			60.00	59.00	3540.00
75	Supplying fixing and wiring heavy duty low voltage capacitors conforming to IS 2834 phase 400/440 volts grade, for power factor improvement of rotating machinery.(PWD Ele SR 2022-23 ,p-14/Sl no.5.37)									
			No	12				12.00	432.00	5184.00
76	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cotouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia (PWD Ele SR 2019-20,p-40,Sl no.6.1)									
			No	3				3.00	2999.70	8999.00
77	Digging of trench of 0.36mtrs deepx0.5 mtrs wide refilling the trench to the required gorund level and consolidating etc., complete (PWD Ele SR 2019-20,p-41,It-6.6.2) hard soil									
			Mtrs	3	8.00			24.00	102.00	2448.00
78	Supplying laying 1.1 KV class LT UG cable having aluminium conductor PVC insulated extruded inner shethed galvanised steel strip (excep 2cx 10 sqmm wire armoured) confirming to IS-3975:1990 (No. of strip indicated in GTP) and extruded PVC outer sheathed armoured cable with specified IS-1554,part-1:1988 and confirming to the attached GTP of group A 4 core 16 sq mm PWD Ele SR 2019-20,p-40,It-6.4.4)									
			Mtrs	3	10.00			30.00	150.00	4500.00

Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
79	labour charge for laying 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe/ on wall / on poles as required in existing trench/duct. 6 sq mm to 16 sq mm(PWD Ele SR 2019-20,p-41,It-6.5.1)									
			No	3	25.00			75.00	11.88	891.00
80	Supplying and fixing class-A(medium duty) GI pipe wall thickness not less then 3.25mm on pole/ wall/drain crossing with necessary clamping arrangements for UG cable of 1.1KV class 40mm(PWD Ele SR 2019-20,p-41,It-6.9.1)									
			Rmt	3	2.00			6.00	335.00	2010.00
81	Supplying and fixing LT cast iron pot heads suitable for 1.1KV class UG cable filled with necessary bitumen / insulating compound complete with terminals,clamps bolts and nuts and washer etc.,complete for 16 sq mm as per specifications.(PWD Ele SR 2019-20,p-42,It-6.10.2)									
			No	3				3.00	270.00	810.00
82	Supplying and fixing porcelain fuse channel with cut out on the existing wooden block and wiring complete 63 amps(PWD Ele SR 2019-20,p-10,It-5.7.3)									
			No	9				9.00	372.00	3348.00
83	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately									
	PWD SR 2021-22 Volume III P.No 10 I.No 2.19									
	Basic rate		422.00							
	A.W @ 10%		42.2							
	Total		**464.2**							
	Borewell									
	Water line		Cum	3	106	0.45	0.15	21.47		
								21.47	464.2	9964.00
84	Earth work excavation for pipeline trenches in all kinds of by mechanical means above 600 mm trench width as per drawing and technical specifications, including setting out, construction of shoring, strutting, barricading, caution lights, bracing, using sight rails & bonding rods at every 100 mm whevere necessary as directed, removal of slumps and other deleterious matter, dressing of sides and levelling the bottom of trench to the extent required , utilising the available excavated earth locally for the work and all other appurtenances to complete in the following strata.									
	PWD SR 2021-22 Volume I P.No 10 I.No 1.19.1									
	Basic rate		342.00							
	A.W @ 10%		34.2							
	Total		**376.2**							
	Borewell									
	Water line		Cum	3	106	0.45	0.40	57.24		
								57.24	376.2	21534.00
85	Providing and fixing **Chorinated Poly Venyl Chloride (CPVC) pipes** conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (external work) - **50mm nominal** OD pipes (KPWD SR 2018-19, P-99, It-13.87.6)									
	PWD SR 2021-22 Volume II P.No 8 I.No : 13.33.6 **1st Corrigendum and Addendum order - 21-04-2022**									
	Basic rate		702.00							
	A.W @ 10%		70.2							
	Total		**772.20**							
	Borewell									
	Water line		Mtr	3	106			318.00		
								318.00	772.2	245560.00
86	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete : 25 to 40 mm nominal bore									
	PWD SR 2021-22 Volume II P.No 115 I.No 13.1.1									
	Basic rate		471.00							
	A.W @ 10%		47.1							
	Total		**518.1**							
	Water line		Each	31.8				31.80	518.1	16476.00
87	Providing and fixing **Chorinated Poly Venyl Chloride (CPVC) pipes** conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete. (external work). - **20mm nominal** OD pipes (KPWD SR 2018-19, P-98, It-13.85.2)									
	PWD SR 2021-22 Volume II P.No 8 I.No : 13.33.20 **1st Corrigendum and Addendum order - 21-04-2022**									

Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
	Basic rate		215.00							
	A.W @ 10%		21.5							
	Total		**236.5**							
	Tap Connection			3	10.00			30.00		
								30.00	236.5	7095.00
88	Providing and fixing to wall, ceiling and floor **Medium density polyethylene pipes** 6.00 kgf/sq.cm working pressure **25mm outside diameter** with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9 (KPWD SR 2018-19, P-95, It-13.67)									
	Basic rate		129.00							
	A.W @ 6%		7.74							
	Total		**136.74**							
	for other Purposes		Mtr	3	125.00			375.00		
								375.00	136.74	51278.00
89	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications									
	PWD SR 2021-22 Volume I P.No 7 I.No 1.10									
	Basic rate		122.00							
	A.W @ 10%		12.2							
	Total		**134.2**							
	70% of Qty Vide item		Cum					40.07	134.2	5377.00
90	**Loading and unloading** of stone boulder/stone aggregates/sand/kanker/ moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (KPWD SR 2018-19,P-136, it.17.1)									
	Item No:-17.1 Loading		57.00							
	Conveying for 16km		40.96							
	Total		97.96							
	Balance Qty Vide item No. 30+ 30% of 31 item		Cum					38.64		
								38.64	97.96	3785.00
91	Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) 65 mm nominal bore									
	PWD SR 2021-22 Volume II P.No 115 I.No :13.4.5									
	Basic rate		1390.00							
	A.W @ 10%		139							
	Total		**1529**							
	For Main Line		Each	3				3.00	1529	4587.00
92	Providing and fixing brass stop cock of approved quality :									
	PWD SR 2021-22 Volume II P.No 115 I.No :13.3.1									
	Basic rate		326.00							
	A.W @ 10%		32.6							
	Total		**358.6**							
	Tap Connection		Each	31.8				31.8		
								31.80	358.6	11403.00
93	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates									
	PWD SR 2021-22 Volume I P.No 15 I.No :2.1.4									
	Basic rate		5926.0							
	A.W @ 10%		592.6							
	Total		**6518.6**							
	Borewell									
	Water line		Cum	3	106	0.45	0.15	21.47		
								21.47	6518.6	139922.00
94	BESCOM deposit Charges and miscellaneous									
			No	3.00				3.00	12000.00	36000.00
	For Asphalt Road									

Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
10	Ii ¥th work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work.(Page No.8, I.No. 1.12 of Vol-1 CSR 2021-22). In all kinds of soils upto 300 mm depth									
	New Asphalt Rd		**Cum**							
	W1259 Gangappa Road			1	233.00	6.60		1537.80		
	W0988 7th Cross Road			1	173.00	3.60		622.80		
	W1265			1	17.50	4.50		78.75		
	W0990 6th Cross			1	272.00	5.60		1523.20		
	W0992 (Om shakthi catering service to cross road)			1	247.00	4.10		1012.70		
	W1257 (Shivashakthi Nilaya to Dead end)			1	84.00	3.50		294.00		
	W0994 (SVK KalyanaMantapa to Samruddi Nilaya			1	176.00	5.80		1020.80		
	W0996 (Titan Showroom to Dead End)			1	177.00	4.10		725.70		
	W1102 (AquaCentre to Dead End)			1	162.00	4.00		648.00		
	W1100 2nd Cross (#217 to Mobile tower)			1	137.00	4.80		657.60		
	W1257 (2nd cross Jnana Jyothinagar)			1	157.00	5.10		800.70		
	W1251 (Vandana Nilaya to Dead end)			1	290.00	5.40		1566.00		
	W1255 (#64 Nanjundeshwara Nilaya to Dead End)			1	115.00	4.60		529.00		
	W0986 (ChannaBasaveshwara Nilaya to Dead End)			1	95.00	5.00		475.00		
	W1243 (Siddappaji Rice Traders to Dead End)			1	324.00	6.50		2106.00		
	W1273			1	88.00	5.00		440.00		
	W1271			1	90.00	5.20		468.00		
	W1267 (4th Cross Dhanush tailor to Dead End)			1	41.00	5.00		205.00		
	W0984 (#47/48 Manasa Nilaya to 9th cross road)			1	195.00	6.00		1170.00		
	W1289 (L & C construction to Dead End)			1	65.00	4.00		260.00		
	W1283(Veerabadra Nilaya to Dead End)			1	42.50	4.20		178.50		
	W1277(Vishnu Nilaya to Dead End			1	43.00	4.20		180.60		
	W1275(Venkatadri Nilaya to Dead end			1	42.00	5.20		218.40		
	W1255(Nanjundeshwara furniture to Dead End)			1	220.00	4.30		946.00		
	W1279 (2nd main road to Samruddhi nilaya			1	134.00	7.50		1005.00		
	W0978 4th Cross Road			1	148.00	6.70		991.60		
	W1287			1	34.00	6.50		221.00		
	W0980(3rd cross road to sri krishna temple road			1	134.00	6.10		817.40		
	W0982 (2nd Cross road to Dead End)			1	208.00	6.30		1310.40		
	W0952			1	122.00	5.50		671.00		
	W1393(Cotton Expo to Dead End)			1	136.00	5.10		693.60		
	W1395(Fastrack Shop to Dead end)			1	114.00	5.50		627.00		
	W1397 (Vivo Mobile shop to Dead end)			1	135.00	6.00		810.00		
	W1399 (SBI Bank to Dead end)			1	78.00	3.80		296.40		
	W1237 (HMR School to Dead end)			1	81.00	5.70		461.70		
	W0960 (Cross Road to Dead End)			1	76.00	5.50		418.00		
	W0964 (Balaji Nilaya to Dead End)			1	87.00	5.50		478.50		

Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
	W0970 (Jagadamba Nilaya to Dead End)			1	58.00	4.60		266.80		
	Cross Road to dead end			1	31.00	4.60		142.60		
	Aishwarya Nilaya to Dead End			1	37.00	6.50		240.50		
	#559 to Dead End			1	37.00	6.80		251.60		
	W0940(RajaRajeshwari Textile shop to Dead End)			1	503.00	6.00		3018.00		
	W1181(6thmain JnanaJyothinagara)			1	218.00	5.70		1242.60		
	W0954 (Urja Swadeshi shop to Dead End)			1	71.00	4.20		298.20		
	W0948 (10th main road Sri Jnanakshi Nilaya to Dead end)			1	70.00	5.20		364.00		
	W1195 9th A cross			1	143.00	6.70		958.10		
	W1197 9th cross			1	520.00	6.30		3276.00		
	W1191 13th A Cross road			1	258.00	6.60		1702.80		
	W1187 & W1189 13th B cross road			1	230.00	6.00		1380.00		
	W1193 9th B cross to dead end			1	55.00	6.00		330.00		
	W1201 & W1199			1	73.00	5.80		423.40		
	W1203 (#7 Rathna Nilaya to Dead End)			1	100.00	5.00		500.00		
	W1207 8th B cross (Vigneshwara stationary shop to Dead End)			1	120.00	5.00		600.00		
	W1211 8th cross			1	180.00	6.60		1188.00		
	W1213 (SLN Provision Store to Dead End)			1	146.00	4.00		584.00		
	W1217 (8th A cross road)			1	182.00	6.80		1237.60		
	W1215 (8th D cross)			1	132.00	3.60		475.20		
	W1219(Hair beauty spa to Sukrith Nivas)			1	184.00	5.00		920.00		
	W1219 9th Main Road			1	117.00	6.10		713.70		
	W1221 7th Cross			1	128.00	4.10		524.80		
	W1223			1	148.00	4.20		621.60		
	W1062 & W1237 (#17 Akka thangi Nilaya to Dead End)			1	176.00	4.50		792.00		
	W1235 & W1233 4th Cross Road			1	409.00	5.00		2045.00		
	W1227 Naveen Electrical to Dead End			1	180.00	4.30		774.00		
	W1229 5th Cross road			1	178.00	5.20		925.60		
	W0944 (Surabi Nilaya to Dead end)			1	118.00	6.70		790.60		
	W1177 12th main road (#Renuka Nilaya to Dead end)			1	151.00	6.40		966.40		
	W0936 (#13 to 12 th main cross road)			1	62.00	6.50		403.00		
	W0923 11th Cross (Ashraya house to Dead End)			1	424.00	6.80		2883.20		
	W0942 10th Main Road (Saikrupa nilaya to Dead end)			1	70.00	5.30		371.00		
	W0946 9th main (#43 Vaathamaja Nilaya to Dead End)			1	108.00	5.40		583.20		
	W0950 (#shivakrupa nilaya to Dead End)			1	124.00	4.20		520.80		
	W0958 (Sri adi shakthi nilaya to Dead End)			1	144.00	5.60		806.40		
	W1169 (11th A1 cross)			1	37.50	5.00		187.50		
	W1171 (11th A2 cross)			1	30.00	5.60		168.00		
	W1185 (11th A3 cross)			1	27.00	5.50		148.50		
	W1173 (11th A4 cross)			1	20.00	6.00		120.00		
	W0771 5th main road			1	100.00	9.00		900.00		
	W0931 (Jeevan Condiments to Dead End)			1	153.00	6.00		918.00		
	W0758 12th Cross road			1	174.00	6.35		1104.90		
	W0760 & W0762 11th Cross			1	205.00	6.80		1394.00		
								64527.75		

Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
	For Consider 30 % For Poholes & Cutting Portion			1	19358.33		0.25	4839.58		
								4839.58	161.10	779656.54
	W1048 3rd Cross Road	65.00								
	W1331 (Sattva Diagnostics to Dead End)	89.60								
	Area Wieght age @ 10%	6.50								
	Total Rate in Rs	161.10								
11	Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401. Granular Sub-BasePlant Mix Method. Materia.Item No.4.1(V),Page No.19, Vol III SR-21-22									
	New Asphalt Rd		Cum							
	For Consider 30 % For Poholes & Cutting Portion			1	19358.33		0.15	2903.75		
								2903.75	2581.70	7496608.15
	Basic rate	2347.00								
	Area Wieght age @ 10%	234.70								
	Total Rate in Rs	2581.70								
15	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. Wet Mix Macadam (Plant mix method) (Page No.24, I.No. 4.27 of Vol-3 SR 2021-22).									
			Cum							
	New Asphalt Rd									
	For Consider 30 % For Poholes & Cutting Portion			1	19358.33		0.175	3387.71		
								3387.71	2633.40	8921187.28
	Basic rate	2394.00								
	Area Wieght age @ 10%	239.40								
	Total Rate in Rs	2633.40								
16	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. (Page No.29, I.No. 5.1 of Vol-3 SR 2021-22).Issue Rate 07/07/2022									
			Sqm							
	New Asphalt Rd									
	For Consider 30 % For Poholes & Cutting Portion			1	19358.33			19358.33		
								19358.33	46.20	894354.62
	Basic rate	42.00								
	Area Wieght age @ 10%	4.20								
	Total Rate in Rs	46.20								
17	Bituminous Macadam Grading - II for traffic <20 MSA Providing and laying Bituminous Macadam with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading premixed with bituminous binder VG-30 @ 3.4% by weight of mix, transported to site, laid over a previously prepared surface with mechanical paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction (Page No.31, I.No. 5.8 C of Vol-3 SR 2021-22).Issue Rate 07/07/2022									
			Cum							
	New Asphalt Rd									
	For Consider 30 % For Poholes & Cutting Portion			1	19358.33		0.05	967.92		
								967.92	8104.80	7844767.62
	Basic rate	7368.00								
	Area Wieght age @ 10%	736.80								
	Total Rate in Rs	8104.80								
18	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom(Page No.29, I.No. 5.3 of Vol-3 SR 2021-22).									

Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
			Sqm							
	New Asphalt Rd									
	W1259 Gangappa Road			1	233.00	6.60		1537.80		
	W0988 7th Cross Road			1	173.00	3.60		622.80		
	W1265			1	17.50	4.50		78.75		
	W0990 6th Cross			1	272.00	5.60		1523.20		
	W0992 (Om shakthi catering service to cross road)			1	247.00	4.10		1012.70		
	W1257 (Shivashakthi Nilaya to Dead end)			1	84.00	3.50		294.00		
	W0994 (SVK KalyanaMantapa to Samruddi Nilaya			1	176.00	5.80		1020.80		
	W0996 (Titan Showroom to Dead End)			1	177.00	4.10		725.70		
	W1102 (AquaCentre to Dead End)			1	162.00	4.00		648.00		
	W1100 2nd Cross (#217 to Mobile tower)			1	137.00	4.80		657.60		
	W1257 (2nd cross Jnana Jyothinagar)			1	157.00	5.10		800.70		
	W1251 (Vandana Nilaya to Dead end)			1	290.00	5.40		1566.00		
	W1255 (#64 Nanjundeshwara Nilaya to Dead End)			1	115.00	4.60		529.00		
	W0986 (ChannaBasaveshwara Nilaya to Dead End)			1	95.00	5.00		475.00		
	W1243 (Siddappaji Rice Traders to Dead End)			1	324.00	6.50		2106.00		
	W1273			1	88.00	5.00		440.00		
	W1271			1	90.00	5.20		468.00		
	W1267 (4th Cross Dhanush tailor to Dead End)			1	41.00	5.00		205.00		
	W0984 (#47/48 Manasa Nilaya to 9th cross road)			1	195.00	6.00		1170.00		
	W1289 (L & C construction to Dead End)			1	65.00	4.00		260.00		
	W1283(Veerabadra Nilaya to Dead End)			1	42.50	4.20		178.50		
	W1277(Vishnu Nilaya to Dead End			1	43.00	4.20		180.60		
	W1275(Venkatadri Nilaya to Dead end			1	42.00	5.20		218.40		
	W1255(Nanjundeshwara furniture to Dead End)			1	220.00	4.30		946.00		
	W1279 (2nd main road to Samruddhi nilaya			1	134.00	7.50		1005.00		
	W0978 4th Cross Road			1	148.00	6.70		991.60		
	W1287			1	34.00	6.50		221.00		
	W0980(3rd cross road to sri krishna temple road			1	134.00	6.10		817.40		
	W0982 (2nd Cross road to Dead End)			1	208.00	6.30		1310.40		
	W0952			1	122.00	5.50		671.00		
	W1393(Cotton Expo to Dead End)			1	136.00	5.10		693.60		
	W1395(Fastrack Shop to Dead end)			1	114.00	5.50		627.00		
	W1397 (Vivo Mobile shop to Dead end)			1	135.00	6.00		810.00		
	W1399 (SBI Bank to Dead end)			1	78.00	3.80		296.40		
	W1237 (HMR School to Dead end)			1	81.00	5.70		461.70		
	W0960 (Cross Road to Dead End)			1	76.00	5.50		418.00		
	W0964 (Balaji Nilaya to Dead End)			1	87.00	5.50		478.50		
	W0970 (Jagadamba Nilaya to Dead End)			1	58.00	4.60		266.80		
	Cross Road to dead end			1	31.00	4.60		142.60		
	Aishwarya Nilaya to Dead End			1	37.00	6.50		240.50		
	#559 to Dead End			1	37.00	6.80		251.60		

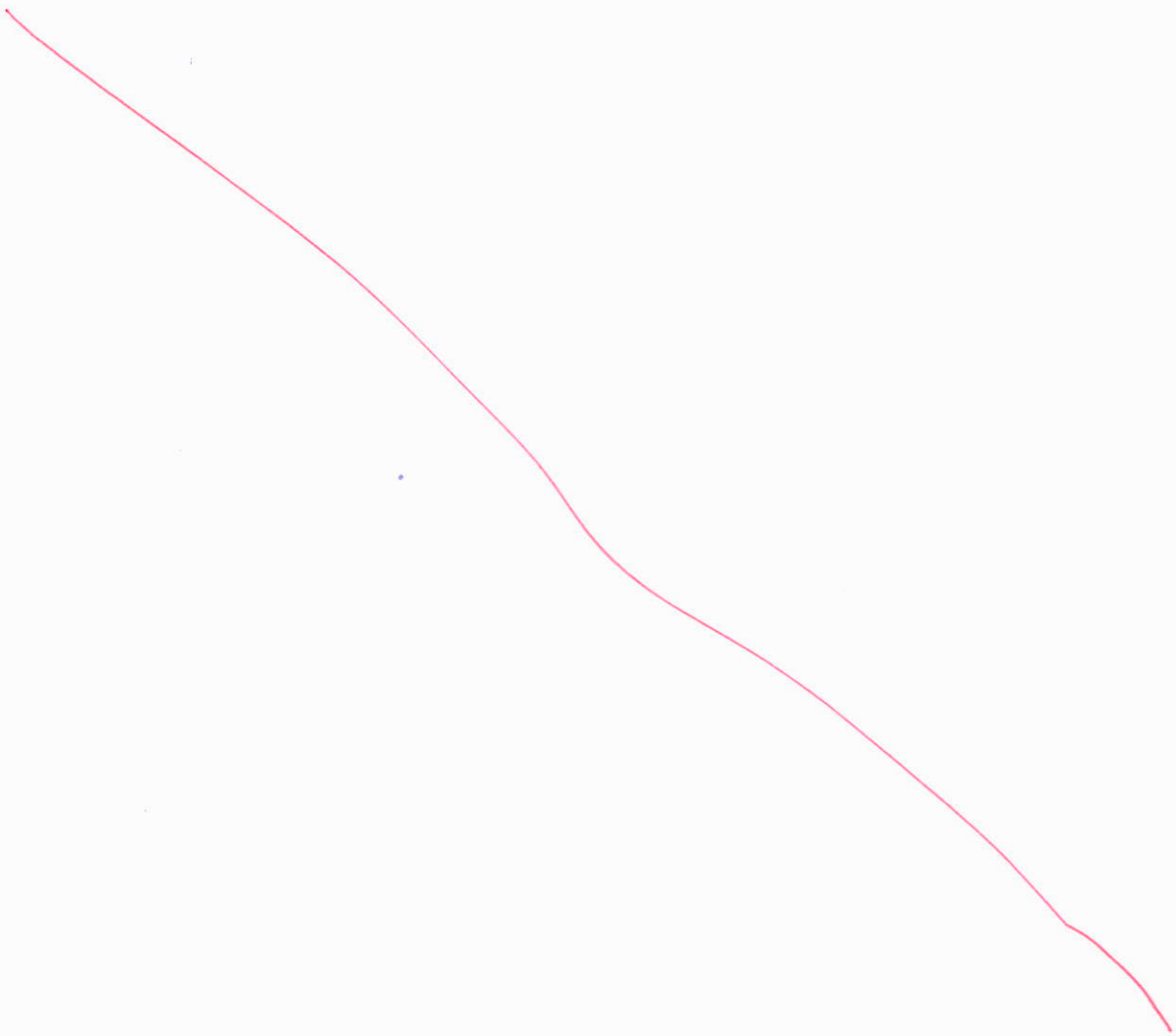
Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
	W0940(RajaRajeshwari Textile shop to Dead End)			1	503.00	6.00		3018.00		
	W1181(6thmain JnanaJyothinagara)			1	218.00	5.70		1242.60		
	W0954 (Urja Swadeshi shop to Dead End)			1	71.00	4.20		298.20		
	W0948 (10th main road Sri Jnanakshi Nilaya to Dead end)			1	70.00	5.20		364.00		
	W1195 9th A cross			1	143.00	6.70		958.10		
	W1197 9th cross			1	520.00	6.30		3276.00		
	W1191 13th A Cross road			1	258.00	6.60		1702.80		
	W1187 & W1189 13th B cross road			1	230.00	6.00		1380.00		
	W1193 9th B cross to dead end			1	55.00	6.00		330.00		
	W1201 & W1199			1	73.00	5.80		423.40		
	W1203 (#7 Rathna Nilaya to Dead End)			1	100.00	5.00		500.00		
	W1207 8th B cross (Vigneshwara stationary shop to Dead End)			1	120.00	5.00		600.00		
	W1211 8th cross			1	180.00	6.60		1188.00		
	W1213 (SLN Provision Store to Dead End)			1	146.00	4.00		584.00		
	W1217 (8th A cross road)			1	182.00	6.80		1237.60		
	W1215 (8th D cross)			1	132.00	3.60		475.20		
	W1219(Hair beauty spa to Sukrith Nivas)			1	184.00	5.00		920.00		
	W1219 9th Main Road			1	117.00	6.10		713.70		
	W1221 7th Cross			1	128.00	4.10		524.80		
	W1223			1	148.00	4.20		621.60		
	W1062 & W1237 (#17 Akka thangi Nilaya to Dead End)			1	176.00	4.50		792.00		
	W1235 & W1233 4th Cross Road			1	409.00	5.00		2045.00		
	W1227 Naveen Electrical to Dead End			1	180.00	4.30		774.00		
	W1229 5th Cross road			1	178.00	5.20		925.60		
	W0944 (Surabi Nilaya to Dead end)			1	118.00	6.70		790.60		
	W1177 12th main road (#Renuka Nilaya to Dead end)			1	151.00	6.40		966.40		
	W0936 (#13 to 12 th main cross road)			1	62.00	6.50		403.00		
	W0923 11th Cross (Ashraya house to Dead End)			1	424.00	6.80		2883.20		
	W0942 10th Main Road (Saikrupa nilaya to Dead end)			1	70.00	5.30		371.00		
	W0946 9th main (#43 Vaathamaja Nilaya to Dead End)			1	108.00	5.40		583.20		
	W0950 (#shivakrupa nilaya to Dead End)			1	124.00	4.20		520.80		
	W0958 (Sri adi shakthi nilaya to Dead End)			1	144.00	5.60		806.40		
	W1169 (11th A1 cross)			1	37.50	5.00		187.50		
	W1171 (11th A2 cross)			1	30.00	5.60		168.00		
	W1185 (11th A3 cross)			1	27.00	5.50		148.50		
	W1173 (11th A4 cross)			1	20.00	6.00		120.00		
	W0771 5th main road			1	100.00	9.00		900.00		
	W0931 (Jeevan Condiments to Dead End)			1	153.00	6.00		918.00		
	W0758 12th Cross road			1	174.00	6.35		1104.90		
	W0760 & W0762 11th Cross			1	205.00	6.80		1394.00		
								64527.75	13.20	851766.30
	Basic rate	**12.00**								
	Area Wieght age @ 10%	**1.20**								
	Total Rate in Rs	**13.20**								

Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
19	Bituminous Concrete Grading II for traffic <20 MSA Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specificationclause No. 507 complete in all respects(Page No 36, I.No.5.16 C of Vol-3 SR 2021-22).Issue Rate 07/07/2022									
			Sqm							
	New Asphalt Rd									
	W1259 Gangappa Road			1	233.00	6.60	0.04	61.51		
	W0988 7th Cross Road			1	173.00	3.60	0.04	24.91		
	W1265			1	17.50	4.50	0.04	3.15		
	W0990 6th Cross			1	272.00	5.60	0.04	60.93		
	W0992 (Om shakthi catering service to cross road)			1	247.00	4.10	0.04	40.51		
	W1257 (Shivashakthi Nilaya to Dead end)			1	84.00	3.50	0.04	11.76		
	W0994 (SVK KalyanaMantapa to Samruddi Nilaya			1	176.00	5.80	0.04	40.83		
	W0996 (Titan Showroom to Dead End)			1	177.00	4.10	0.04	29.03		
	W1102 (AquaCentre to Dead End)			1	162.00	4.00	0.04	25.92		
	W1100 2nd Cross (#217 to Mobile tower)			1	137.00	4.80	0.04	26.30		
	W1257 (2nd cross Jnana Jyothinagar)			1	157.00	5.10	0.04	32.03		
	W1251 (Vandana Nilaya to Dead end)			1	290.00	5.40	0.04	62.64		
	W1255 (#64 Nanjundeshwara Nilaya to Dead End)			1	115.00	4.60	0.04	21.16		
	W0986 (ChannaBasaveshwara Nilaya to Dead End)			1	95.00	5.00	0.04	19.00		
	W1243 (Siddappaji Rice Traders to Dead End)			1	324.00	6.50	0.04	84.24		
	W1273			1	88.00	5.00	0.04	17.60		
	W1271			1	90.00	5.20	0.04	18.72		
	W1267 (4th Cross Dhanush tailor to Dead End)			1	41.00	5.00	0.04	8.20		
	W0984 (#47/48 Manasa Nilaya to 9th cross road)			1	195.00	6.00	0.04	46.80		
	W1289 (L & C construction to Dead End)			1	65.00	4.00	0.04	10.40		
	W1283(Veerabadra Nilaya to Dead End)			1	42.50	4.20	0.04	7.14		
	W1277(Vishnu Nilaya to Dead End			1	43.00	4.20	0.04	7.22		
	W1275(Venkatadri Nilaya to Dead end			1	42.00	5.20	0.04	8.74		
	W1255(Nanjundeshwara furniture to Dead End)			1	220.00	4.30	0.04	37.84		
	W1279 (2nd main road to Samruddhi nilaya			1	134.00	7.50	0.04	40.20		
	W0978 4th Cross Road			1	148.00	6.70	0.04	39.66		
	W1287			1	34.00	6.50	0.04	8.84		
	W0980(3rd cross road to sri krishna temple road			1	134.00	6.10	0.04	32.70		
	W0982 (2nd Cross road to Dead End)			1	208.00	6.30	0.04	52.42		
	W0952			1	122.00	5.50	0.04	26.84		
	W1393(Cotton Expo to Dead End)			1	136.00	5.10	0.04	27.74		
	W1395(Fastrack Shop to Dead end)			1	114.00	5.50	0.04	25.08		
	W1397 (Vivo Mobile shop to Dead end)			1	135.00	6.00	0.04	32.40		
	W1399 (SBI Bank to Dead end)			1	78.00	3.80	0.04	11.86		
	W1237 (HMR School to Dead end)			1	81.00	5.70	0.04	18.47		
	W0960 (Cross Road to Dead End)			1	76.00	5.50	0.04	16.72		

Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
	W0964 (Balaji Nilaya to Dead End)			1	87.00	5.50	0.04	19.14		
	W0970 (Jagadamba Nilaya to Dead End)			1	58.00	4.60	0.04	10.67		
	Cross Road to dead end			1	31.00	4.60	0.04	5.70		
	Aishwarya Nilaya to Dead End			1	37.00	6.50	0.04	9.62		
	#559 to Dead End			1	37.00	6.80	0.04	10.06		
	W0940(RajaRajeshwari Textile shop to Dead End)			1	503.00	6.00	0.04	120.72		
	W1181(6thmain JnanaJyothinagara)			1	218.00	5.70	0.04	49.70		
	W0954 (Urja Swadeshi shop to Dead End)			1	71.00	4.20	0.04	11.93		
	W0948 (10th main road Sri Jnanakshi Nilaya to Dead end)			1	70.00	5.20	0.04	14.56		
	W1195 9th A cross			1	143.00	6.70	0.04	38.32		
	W1197 9th cross			1	520.00	6.30	0.04	131.04		
	W1191 13th A Cross road			1	258.00	6.60	0.04	68.11		
	W1187 & W1189 13th B cross road			1	230.00	6.00	0.04	55.20		
	W1193 9th B cross to dead end			1	55.00	6.00	0.04	13.20		
	W1201 & W1199			1	73.00	5.80	0.04	16.94		
	W1203 (#7 Rathna Nilaya to Dead End)			1	100.00	5.00	0.04	20.00		
	W1207 8th B cross (Vigneshwara stationary shop to Dead End)			1	120.00	5.00	0.04	24.00		
	W1211 8th cross			1	180.00	6.60	0.04	47.52		
	W1213 (SLN Provision Store to Dead End)			1	146.00	4.00	0.04	23.36		
	W1217 (8th A cross road)			1	182.00	6.80	0.04	49.50		
	W1215 (8th D cross)			1	132.00	3.60	0.04	19.01		
	W1219(Hair beauty spa to Sukrith Nivas)			1	184.00	5.00	0.04	36.80		
	W1219 9th Main Road			1	117.00	6.10	0.04	28.55		
	W1221 7th Cross			1	128.00	4.10	0.04	20.99		
	W1223			1	148.00	4.20	0.04	24.86		
	W1062 & W1237 (#17 Akka thangi Nilaya to Dead End)			1	176.00	4.50	0.04	31.68		
	W1235 & W1233 4th Cross Road			1	409.00	5.00	0.04	81.80		
	W1227 Naveen Electrical to Dead End			1	180.00	4.30	0.04	30.96		
	W1229 5th Cross road			1	178.00	5.20	0.04	37.02		
	W0944 (Surabi Nilaya to Dead end)			1	118.00	6.70	0.04	31.62		
	W1177 12th main road (#Renuka Nilaya to Dead end)			1	151.00	6.40	0.04	38.66		
	W0936 (#13 to 12 th main cross road)			1	62.00	6.50	0.04	16.12		
	W0923 11th Cross (Ashraya house to Dead End)			1	424.00	6.80	0.04	115.33		
	W0942 10th Main Road (Saikrupa nilaya to Dead end)			1	70.00	5.30	0.04	14.84		
	W0946 9th main (#43 Vaathamaja Nilaya to Dead End)			1	108.00	5.40	0.04	23.33		
	W0950 (#shivakrupa nilaya to Dead End)			1	124.00	4.20	0.04	20.83		
	W0958 (Sri adi shakthi nilaya to Dead End)			1	144.00	5.60	0.04	32.26		
	W1169 (11th A1 cross)			1	37.50	5.00	0.04	7.50		
	W1171 (11th A2 cross)			1	30.00	5.60	0.04	6.72		
	W1185 (11th A3 cross)			1	27.00	5.50	0.04	5.94		
	W1173 (11th A4 cross)			1	20.00	6.00	0.04	4.80		
	W0771 5th main road			1	100.00	9.00	0.04	36.00		
	W0931 (Jeevan Condiments to Dead End)			1	153.00	6.00	0.04	36.72		
	W0758 12th Cross road			1	174.00	6.35	0.04	44.20		
	W0760 & W0762 11th Cross			1	205.00	6.80	0.04	55.76		

Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
								2581.11	11672.10	30126974.03
	Basic rate	10611.00								
	Area Wieght age @ 10%	1061.10								
	Total Rate in Rs	11672.10								
20	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous SurfaceProviding and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes(Page No.57, I.No. 8.15 of Vol-3 SR 2021-22).									
	Road Marking		Sqm							
	New Asphalt Rd									
	W1259 Gangappa Road			2	233.00	0.10		46.60		
	W0988 7th Cross Road			2	173.00	0.10		34.60		
	W1265			2	17.50	0.10		3.50		
	W0990 6th Cross			2	272.00	0.10		54.40		
	W0992 (Om shakthi catering service to cross road)			2	247.00	0.10		49.40		
	W1257 (Shivashakthi Nilaya to Dead end)			2	84.00	0.10		16.80		
	W0994 (SVK KalyanaMantapa to Samruddi Nilaya			2	176.00	0.10		35.20		
	W0996 (Titan Showroom to Dead End)			2	177.00	0.10		35.40		
	W1102 (AquaCentre to Dead End)			2	162.00	0.10		32.40		
	W1100 2nd Cross (#217 to Mobile tower)			2	137.00	0.10		27.40		
	W1257 (2nd cross Jnana Jyothinagar)			2	157.00	0.10		31.40		
	W1251 (Vandana Nilaya to Dead end)			2	290.00	0.10		58.00		
	W1255 (#64 Nanjundeshwara Nilaya to Dead End)			2	115.00	0.10		23.00		
	W0986 (ChannaBasaveshwara Nilaya to Dead End)			2	95.00	0.10		19.00		
	W1243 (Siddappaji Rice Traders to Dead End)			2	324.00	0.10		64.80		
	W1273			2	88.00	0.10		17.60		
	W1271			2	90.00	0.10		18.00		
	W1267 (4th Cross Dhanush tailor to Dead End)			2	41.00	0.10		8.20		
	W0984 (#47/48 Manasa Nilaya to 9th cross road)			2	195.00	0.10		39.00		
	W1289 (L & C construction to Dead End)			2	65.00	0.10		13.00		
	W1283(Veerabadra Nilaya to Dead End)			2	42.50	0.10		8.50		
	W1277(Vishnu Nilaya to Dead End			2	43.00	0.10		8.60		
	W1275(Venkatadri Nilaya to Dead end			2	42.00	0.10		8.40		
	W1255(Nanjundeshwara furniture to Dead End)			2	220.00	0.10		44.00		
	W1279 (2nd main road to Samruddhi nilaya			2	134.00	0.10		26.80		
	W0978 4th Cross Road			2	148.00	0.10		29.60		
	W1287			2	34.00	0.10		6.80		
	W0980(3rd cross road to sri krishna temple road			2	134.00	0.10		26.80		
	W0982 (2nd Cross road to Dead End)			2	208.00	0.10		41.60		
	W0952			2	122.00	0.10		24.40		
	W1393(Cotton Expo to Dead End)			2	136.00	0.10		27.20		
	W1395(Fastrack Shop to Dead end)			2	114.00	0.10		22.80		
	W1397 (Vivo Mobile shop to Dead end)			2	135.00	0.10		27.00		
	W1399 (SBI Bank to Dead end)			2	78.00	0.10		15.60		

Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
	237 (HMR School to Dead end)			2	81.00	0.10		16.20		
	W0960 (Cross Road to Dead End)			2	76.00	0.10		15.20		
	W0964 (Balaji Nilaya to Dead End)			2	87.00	0.10		17.40		
	W0970 (Jagadamba Nilaya to Dead End)			2	58.00	0.10		11.60		
	Cross Road to dead end			2	31.00	0.10		6.20		
	Aishwarya Nilaya to Dead End			2	37.00	0.10		7.40		
	#559 to Dead End			2	37.00	0.10		7.40		
	W0940(RajaRajeshwari Textile shop to Dead End)			2	503.00	0.10		100.60		
	W1181(6thmain JnanaJyothinagara)			2	218.00	0.10		43.60		
	W0954 (Urja Swadeshi shop to Dead End)			2	71.00	0.10		14.20		
	W0948 (10th main road Sri Jnanakshi Nilaya to Dead end)			2	70.00	0.10		14.00		
	W1195 9th A cross			2	143.00	0.10		28.60		
	W1197 9th cross			2	520.00	0.10		104.00		
	W1191 13th A Cross road			2	258.00	0.10		51.60		
	W1187 & W1189 13th B cross road			2	230.00	0.10		46.00		
	W1193 9th B cross to dead end			2	55.00	0.10		11.00		
	W1201 & W1199			2	73.00	0.10		14.60		
	W1203 (#7 Rathna Nilaya to Dead End)			2	100.00	0.10		20.00		
	W1207 8th B cross (Vigneshwara stationary shop to Dead End)			2	120.00	0.10		24.00		



Sl No	Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
	1211 8th cross			2	180.00	0.10		36.00		
	W1213 (SLN Provision Store to Dead End)			2	146.00	0.10		29.20		
	W1217 (8th A cross road)			2	182.00	0.10		36.40		
	W1215 (8th D cross)			2	132.00	0.10		26.40		
	W1219(Hair beauty spa to Sukrith Nivas)			2	184.00	0.10		36.80		
	W1219 9th Main Road			2	117.00	0.10		23.40		
	W1221 7th Cross			2	128.00	0.10		25.60		
	W1223			2	148.00	0.10		29.60		
	W1062 & W1237 (#17 Akka thangi Nilaya to Dead End)			2	176.00	0.10		35.20		
	W1235 & W1233 4th Cross Road			2	409.00	0.10		81.80		
	W1227 Naveen Electrical to Dead End			2	180.00	0.10		36.00		
	W1229 5th Cross road			2	178.00	0.10		35.60		
	W0944 (Surabi Nilaya to Dead end)			2	118.00	0.10		23.60		
	W1177 12th main road (#Renuka Nilaya to Dead end)			2	151.00	0.10		30.20		
	W0936 (#13 to 12 th main cross road)			2	62.00	0.10		12.40		
	W0923 11th Cross (Ashraya house to Dead End)			2	424.00	0.10		84.80		
	W0942 10th Main Road (Saikrupa nilaya to Dead end)			2	70.00	0.10		14.00		
	W0946 9th main (#43 Vaathamaja Nilaya to Dead End)			2	108.00	0.10		21.60		
	W0950 (#shivakrupa nilaya to Dead End)			2	124.00	0.10		24.80		
	W0958 (Sri adi shakthi nilaya to Dead End)			2	144.00	0.10		28.80		
	W1169 (11th A1 cross)			2	37.50	0.10		7.50		
	W1171 (11th A2 cross)			2	30.00	0.10		6.00		
	W1185 (11th A3 cross)			2	27.00	0.10		5.40		
	W1173 (11th A4 cross)			2	20.00	0.10		4.00		
	W0771 5th main road			2	100.00	0.10		20.00		
	W0931 (Jeevan Condiments to Dead End)			2	153.00	0.10		30.60		
	W0758 12th Cross road			2	174.00	0.10		34.80		
	W0760 & W0762 11th Cross			2	205.00	0.10		41.00		
								2320.90	**525.80**	**1220329.22**
	Basic rate	**478.00**								
	Area Wieght age @ 10%	**47.80**								
	Total Rate in Rs	**525.80**								
									Construction Total Amount	**6,64,36,742.02**
									Add GST Charges 18%	**1,19,58,613.56**
									Add Detailed Project Report (DPR) and PMC Charges 2.0%	**16,00,000.00**
									Sub Total	**7,99,95,355.58**
									Miscellaneous and unforeseen charges etc.L.S	**4,644.42**
									Grand Total	**8,00,00,000.00**

Certificate:

1. The work spot has been inspected and found to be necessary
2. The provisions made in the estimate are necessary and minimum
3. The estimate is based on CSR of 2021-22 of Issue Rates on 07.04.2022

Assistant Engineer
RR Nagar Division

Assistant Executive Engineer
RR Nagar Division

Executive Engineer
RR Nagar Division